## 2023-Professional Awards by Student

| Certificate          | eName       | Title<br>Teacher                  | School                    |  |
|----------------------|-------------|-----------------------------------|---------------------------|--|
| Aaqib Fa<br>Alexande | rhad with G | Gebriel Cilantro: Cheaper ways t  | o Filter Water            |  |
|                      |             | David Egan                        | Larson Middle Scl         | hool   |
| Place                | e Code      | Organization Name                 |                           | Organization Description   |
| 1                    | EPA         | <b>Environmental Protection A</b> | gency                     | Congratulatory Letter of encourgement  |
| 1                    | JIC         | Thermo Fisher Scientific-Jun      | nior Innovators Challenge | Student is nominated for competition in the Thermo Fisher Scientific-Junior Innovators Challenge. Register online at: https://www.societyforscience.org/jic/for-nominees/ and use password of USMI02 |
| Aarush Li            | ingala      | Catabolism of Color               |                           |  |
|                      |             | David Lurie                       | Plymouth Scholar          | rs Middle School   |
| Place                | e Code      | Organization Name                 |                           | Organization Description   |
| 1                    | JIC         | Thermo Fisher Scientific-Jun      | nior Innovators Challenge | Student is nominated for competition in the Thermo Fisher Scientific-Junio Innovators Challenge. Register online at: https://www.societyforscience.org/jic/for-nominees/ and use password or USMI02  |
| Aasiya Ha            | aque        | Electromagnetic Train             |                           |  |
|                      |             | Wajida Taj                        | Tawheed Center            | School   |
| Place                | e Code      | Organization Name                 |                           | Organization Description   |
| 1                    | JIC         | Thermo Fisher Scientific-Jun      | nior Innovators Challenge | Student is nominated for competition in the Thermo Fisher Scientific-Junion Innovators Challenge. Register online at: https://www.societyforscience.org/jic/for-nominees/ and use password of USMI02 |

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|  | Title  |  |
|--|--|--|
| CertificateName  | Teacher School                                     |  |
| Abdullah Algazzaly w<br>Abdulah Aljohaim an<br>Alnhari |  |  |
|  | Jason Bodson Oakland Inte                          | rnational Academy HS   |
| Place Code   | Organization Name                                  | Organization Description   |
| 1 LTU-WS   | LTU Summer Workshop                                | Participation in the LTU Summer Workshop program   |
| Abigail Eilertson                                      | Creation of a Smart-Sock to Reduce the Risk of     | Amputation in Diabetic Patients  |
|  | Rebecca Joyce Kalamazoo A                          | rea Math and Science Center  |
| Place Code   | Organization Name                                  | Organization Description   |
| 5 STATE  | MSEF   | Selected for competition into the Michigan Science and Engineering Fair on March 15, 2023.   |
| HM SWE   | Society of Women Engineers - Detroit               | Honorable Mentions   |
| Abigail Jones  | Organic Polymers                                   |  |
|  | Maureen Wickenheiser St. Patrick Ele               | ementary-Carleton, MI - 6-8  |
| Place Code   | Organization Name                                  | Organization Description   |
| 2JR ASMDET   | ASM - Detroit Chapter                              | Certificate of accomplishment and complementary admission to/recognition at chapter dinner meeting.  |
| 1 EPA  | Environmental Protection Agency                    | Congratulatory Letter of encourgement  |
| 1 JIC  | Thermo Fisher Scientific-Junior Innovators Challer | Student is nominated for competition in the Thermo Fisher Scientific-Junior Innovators Challenge. Register online at: https://www.societyforscience.org/jic/for-nominees/ and use password of USMI02 |
| 1J SIGXI   | Sigma Xi-Univ of Mich Chapter                      | Certificate of award and cash award in the Junior Division   |
| Abigail Rohde  | Snailtrap: Investigating Eco-friendly Methods f    | or Freshwater Snail Capture  |
|  | Theresa Stager Saline High S                       | chool  |
| Place Code   | Organization Name                                  | Organization Description   |
| 1 AWG  | Association of Women GeoScientists                 | Awards Certificate   |
| 1ST NGS  | National Geographic Society                        | \$100 award and a certificate  |

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| Adam Elkosh  Kernel me Crazy  Zehra Beg  Huda Upper School  Place Code  Organization Name  Organization Description  1 JIC  Thermo Fisher Scientific-Junior Innovators Challenge  Linnovators Challenge. Register online at:  https://www.societyforscience.org/jic/for-nominees/ and use USMI02  Adam Fodil  Chirality debunked  Wajida Taj  Tawheed Center School  Place Code  Organization Name  Organization Description  Student is nominated for competition in the Thermo Fisher Scientific-Junior Innovators Challenge  Student is nominated for competition in the Thermo Fisher Scientific-Junior Innovators Challenge  Student is nominated for competition in the Thermo Fisher Scientific-Junior Innovators Challenge. Register online at:  |             |         | Title                           |                      |  |
|--|-------------|---------|---------------------------------|----------------------|--|
| 1 SIWI Stockholm Junior Water Prize (Stockholm) Regional Award and recommendation to compete nationally 5 STATE MSEF Scientific March 15, 2023.  Adam Elkosh Kernel me Crazy Zehra Beg Huda Upper School Place Code Organization Name Organization Description 1 JIC Thermo Fisher Scientific-Junior Innovators Challenge Student is nominated for competition in the Thermo Fisher Scientific-Junior Innovators Challenge USMI02  Adam Fodil Chirality debunked Wajida Taj Tawheed Center School Place Code Organization Name Organization Description 1 JIC Thermo Fisher Scientific-Junior Innovators Challenge Student is nominated for competition in the Thermo Fisher Scientific-Junior Innovators Challenge Student is nominated for competition in the Thermo Fisher Scientific-Junior Innovators Challenge Student is nominated for competition in the Thermo Fisher Scientific-Junior Innovators Challenge Student is nominated for competition in the Thermo Fisher Scientific-Junior Innovators Challenge Student is nominated for competition in the Thermo Fisher Scientific-Junior Innovators Challenge Student is nominated for competition in the Thermo Fisher Scientific-Junior Innovators Challenge Student is nominated for competition in the Thermo Fisher Scientific-Junior Innovators Challenge Student is nominated for competition in the Thermo Fisher Scientific-Junior Innovators Challenge Student is nominated for competition in the Thermo Fisher Scientific-Junior Innovators Challenge Student is nominated for competition in the Thermo Fisher Scientific-Junior Innovators Challenge Student is nominated for competition in the Thermo Fisher Scientific-Junior Innovators Challenge Student is nominated for competition in the Thermo Fisher Scientific-Junior Innovators Challenge Student is nominated for competition in the Thermo Fisher Scientific-Junior Innovators Challenge Student is nominated for competition in the Thermo Fisher Scientific-Junior Innovators Challenge Student is nominated for competition in the Thermo Fisher Scientific-Junior Innovators Challe | Certificate | Name    | Teacher                         | School               |  |
| Selected for competition into the Michigan Science and Engineer March 15, 2023.  Adam Elkosh  Kernel me Crazy Zehra Beg Huda Upper School  Place Code Organization Name Organization Description  Thermo Fisher Scientific-Junior Innovators Challenge Student is nominated for competition in the Thermo Fisher Scientific-Junior Innovators Challenge Innovators Challenge. Register online at: https://www.societyforscience.org/jic/for-nominees/ and use USMI02  Adam Fodil Chirality debunked Wajida Taj Tawheed Center School  Place Code Organization Name Organization Description Student is nominated for competition in the Thermo Fisher Scientific-Junior Innovators Challenge Student is nominated for competition in the Thermo Fisher Scientinovators Challenge. Register online at: https://www.societyforscience.org/jic/for-nominees/ and use USMI02  Adam Zaki How Microbes eat our trash Talath Ansari Crescent Academy International Place Code Organization Name Organization Description  TePA Environmental Protection Agency Congratulatory Letter of encourgement  Adan Gandarilla Oxidation of Apples Carol Smuk Academy of the Americas-Middle School Organization Description   | 15          | SIGXI   | Sigma Xi-Univ of Mich Chapter   |                      | Certificate of award and cash award in the Senior Division                                 |
| Adam Elkosh Kernel me Crazy Zehra Beg Huda Upper School  Place Code Organization Name Organization Description  1 JIC Thermo Fisher Scientific-Junior Innovators Challenge Student is nominated for competition in the Thermo Fisher Scientific-Junior Innovators Challenge Student is nominated for competition in the Thermo Fisher Scientific-Junior Innovators Challenge. Register online at: https://www.societyforscience.org/jic/for-nominees/ and use USMI02  Adam Fodil Chirality debunked Wajida Taj Tawheed Center School  Place Code Organization Name Organization Description  Thermo Fisher Scientific-Junior Innovators Challenge Student is nominated for competition in the Thermo Fisher Scientifics-Junior Innovators Challenge. Register online at: https://www.societyforscience.org/jic/for-nominees/ and use USMI02  Adam Zaki How Microbes eat our trash Talath Ansari Crescent Academy International Place Code Organization Name Organization Description  EPA Environmental Protection Agency Congratulatory Letter of encourgement  Adan Gandarilla Oxidation of Apples Carol Smuk Academy of the Americas-Middle School Place Code Organization Name Organization Description  | 1           | SIWI    | Stockholm Junior Water Prize (  | Stockholm)           | Regional Award and recommendation to compete nationally                                    |
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| Place Code  Organization Name  Thermo Fisher Scientific-Junior Innovators Challenge  Student is nominated for competition in the Thermo Fisher Scientific-Junior Innovators Challenge  Register online at: https://www.societyforscience.org/jic/for-nominees/ and use USMI02  Adam Fodil  Chirality debunked Wajida Taj Tawheed Center School  Place Code Organization Name Organization Description Student is nominated for competition in the Thermo Fisher Scientific-Junior Innovators Challenge Student is nominated for competition in the Thermo Fisher Scientific-Junior Innovators Challenge Innovators Challenge. Register online at: https://www.societyforscience.org/jic/for-nominees/ and use USMI02  Adam Zaki How Microbes eat our trash Talath Ansari Crescent Academy International Place Code Organization Name Organization Description  Tepa Environmental Protection Agency Congratulatory Letter of encourgement  Adan Gandarilla Oxidation of Apples Carol Smuk Academy of the Americas-Middle School Place Code Organization Name Organization Description  | Adam Elko   | osh     | Kernel me Crazy                 |                      |  |
| Thermo Fisher Scientific-Junior Innovators Challenge  Student is nominated for competition in the Thermo Fisher Scientific-Junior Innovators Challenge. Register online at: https://www.societyforscience.org/jic/for-nominees/ and use USMI02  Adam Fodil Chirality debunked Wajida Taj Tawheed Center School  Place Code Organization Name Organization Description  Thermo Fisher Scientific-Junior Innovators Challenge Student is nominated for competition in the Thermo Fisher Scientific-Junior Innovators Challenge Register online at: https://www.societyforscience.org/jic/for-nominees/ and use USMI02  Adam Zaki How Microbes eat our trash Talath Ansari Crescent Academy International Place Code Organization Name Organization Description  Tepa Environmental Protection Agency Congratulatory Letter of encourgement  Adan Gandarilla Oxidation of Apples Carol Smuk Academy of the Americas-Middle School Place Code Organization Name Organization Description   |             |         | Zehra Beg                       | Huda Upper Schoo     | I  |
| Innovators Challenge. Register online at: https://www.societyforscience.org/jic/for-nominees/ and use USMI02  Adam Fodil Chirality debunked Wajida Taj Tawheed Center School  Place Code Organization Name Organization Description  1 JIC Thermo Fisher Scientific-Junior Innovators Challenge Student is nominated for competition in the Thermo Fisher Scientinovators Challenge. Register online at: https://www.societyforscience.org/jic/for-nominees/ and use USMI02  Adam Zaki How Microbes eat our trash Talath Ansari Crescent Academy International  Place Code Organization Name Organization Description  1 EPA Environmental Protection Agency Congratulatory Letter of encourgement  Adan Gandarilla Oxidation of Apples Carol Smuk Academy of the Americas-Middle School  Place Code Organization Name Organization Description  | Place       | Code    | Organization Name               |                      | Organization Description   |
| Wajida Taj Tawheed Center School  Place Code Organization Name Organization Description  1 JIC Thermo Fisher Scientific-Junior Innovators Challenge Student is nominated for competition in the Thermo Fisher Scientific-Junior Innovators Challenge Register online at:   | 1           | JIC     | Thermo Fisher Scientific-Junior | Innovators Challenge | https://www.societyforscience.org/jic/for-nominees/ and use password of                    |
| Place Code  Organization Name  Thermo Fisher Scientific-Junior Innovators Challenge  Student is nominated for competition in the Thermo Fisher Scientific-Junior Innovators Challenge  Student is nominated for competition in the Thermo Fisher Scientific-Junior Innovators Challenge. Register online at: https://www.societyforscience.org/jic/for-nominees/ and use USMI02  Adam Zaki  How Microbes eat our trash  Talath Ansari  Crescent Academy International  Place Code  Organization Name  Organization Description  1 EPA  Environmental Protection Agency  Congratulatory Letter of encourgement  Adan Gandarilla  Oxidation of Apples  Carol Smuk  Academy of the Americas-Middle School  Place Code  Organization Name  Organization Description  | Adam Fod    | lil     | Chirality debunked              |                      |  |
| Thermo Fisher Scientific-Junior Innovators Challenge  Student is nominated for competition in the Thermo Fisher Scientific-Junior Innovators Challenge. Register online at: https://www.societyforscience.org/jic/for-nominees/ and use USMI02  Adam Zaki  How Microbes eat our trash  Talath Ansari  Crescent Academy International  Place Code  Organization Name  Organization Description  1 EPA  Environmental Protection Agency  Congratulatory Letter of encourgement  Adan Gandarilla  Oxidation of Apples  Carol Smuk  Academy of the Americas-Middle School  Place Code  Organization Name  Organization Description   |             |         | Wajida Taj                      | Tawheed Center So    | chool  |
| Innovators Challenge. Register online at: https://www.societyforscience.org/jic/for-nominees/ and use USMI02  Adam Zaki How Microbes eat our trash Talath Ansari Crescent Academy International  Place Code Organization Name Organization Description  1 EPA Environmental Protection Agency Congratulatory Letter of encourgement  Adan Gandarilla Oxidation of Apples Carol Smuk Academy of the Americas-Middle School  Place Code Organization Name Organization Description   | Place       | Code    | Organization Name               |                      | Organization Description   |
| Talath Ansari Crescent Academy International  Place Code Organization Name Organization Description  1 EPA Environmental Protection Agency Congratulatory Letter of encourgement  Adan Gandarilla Oxidation of Apples Carol Smuk Academy of the Americas-Middle School  Place Code Organization Name Organization Description  | 1           | JIC     | Thermo Fisher Scientific-Junior | Innovators Challenge | https://www.societyforscience.org/jic/for-nominees/ and use password of                    |
| Place Code       Organization Name       Organization Description         1       EPA       Environmental Protection Agency       Congratulatory Letter of encourgement         Adan Gandarilla       Oxidation of Apples <ul> <li>Carol Smuk</li> <li>Academy of the Americas-Middle School</li> </ul> Place Code       Organization Name       Organization Description  | Adam Zak    | i       | How Microbes eat our trash      | 1                    |  |
| 1 EPA Environmental Protection Agency Congratulatory Letter of encourgement  Adan Gandarilla Oxidation of Apples Carol Smuk Academy of the Americas-Middle School  Place Code Organization Name Organization Description   |             |         | Talath Ansari                   | Crescent Academy     | International  |
| Adan Gandarilla Oxidation of Apples Carol Smuk Academy of the Americas-Middle School Place Code Organization Name Organization Description   | Place       | Code    | Organization Name               |                      | Organization Description   |
| Carol Smuk Academy of the Americas-Middle School  Place Code Organization Name Organization Description  | 1           | EPA     | Environmental Protection Agen   | ncy                  | Congratulatory Letter of encourgement  |
| Place Code Organization Name Organization Description  | Adan Gan    | darilla | Oxidation of Apples             |                      |  |
|  |             |         | Carol Smuk                      | Academy of the An    | nericas-Middle School  |
| 1 EPA Environmental Protection Agency Congratulatory Letter of encourgement  | Place       | Code    | Organization Name               |                      | Organization Description   |
|  | 1           | EPA     | Environmental Protection Agen   | ncy                  | Congratulatory Letter of encourgement  |

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| Т | itl | e |  |
|---|-----|---|--|
|   |     |   |  |

| CertificateName |        | Teacher School   |                       |  |  |
|-----------------|--------|--|-----------------------|--|--|
| Aditya Gopu     |        | An Investigation Into Removing Micro-Plastics From Water a Through Ferrofluids |                       |  |  |
|                 |        | David Egan   | Larson Middle Sch     | nool   |  |
| Place           | Code   | Organization Name  |                       | Organization Description   |  |
| 1-JR            | AIRWAS | Air Waste Management Ass   | sociation             | Certificate and \$200 first place award  |  |
| 1JR             | ASMDET | ASM - Detroit Chapter  |                       | Certificate of accomplishment and complementary admission to/recognition at chapter dinner meeting.  |  |
| 1               | EPA    | Environmental Protection A   | gency                 | Congratulatory Letter of encourgement  |  |
| 1               | JIC    | Thermo Fisher Scientific-Junior Innovators Challenge                           |                       | Student is nominated for competition in the Thermo Fisher Scientific-Junior Innovators Challenge. Register online at: https://www.societyforscience.org/jic/for-nominees/ and use password of USMI02 |  |
| 1JR             | USNAVY | United States Navy   |                       | Letter of Congratulations, ONR Medallion, Naval Science Award Certificate  |  |
| Akshaj Sha      | ırma   | Turbulent Jet Flow to Induce Entrainment for Atmospheric Rocket Flight         |                       |  |  |
|                 |        | Jackie Toepel  | International Acad    | demy-East Campus   |  |
| Place           | Code   | Organization Name  |                       | Organization Description   |  |
| 2               | ASA    | American Statistical Associa<br>Chapters                                       | ation (ASA), Michigan | \$50 Award of Merit  |  |
| 6               | ASEIO  | American Society of Engine   | ers of Indian Origin  | Certificate, \$15 Gift card, Invitation to enter ASEI National YTE   |  |
| 1               | FPC    | Fino Plane Co  |                       | Orientation/instructional flight down the Detroit River, over the Ambassador Bridge, and back to Pontiac   |  |
| 1               | ISEF   | ISEF   |                       | SEFMD ISEF Finalist for 2022, May 8-13, 2022   |  |
| 1SR             | SPACEX | SpaceX   |                       | Awarded to a high quality project with application to SpaceX or aerospace more generally. Student demonstrates enthusiasm for the subject.   |  |
| 2               | STATE  | MSEF   |                       | Second Place Award of \$100 Cash Award   |  |
| 1-ST            | USMA   | US Metric Association Awar   | <sup>-</sup> d        | Certificate  |  |
| 1SR             | USNAVY | United States Navy   |                       | Letter of Congratulations, ONR Medallion, Naval Science Award Certificate, and \$50 gift card  |  |

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|             |        | Title  |                        |  |  |  |
|-------------|--------|--|------------------------|--|--|--|
| Certificate | Name   | Teacher  | School                 |  |  |  |
| Akshar Co   | owlagi | Refining Radiative Transfer Models of Clouds via Analyses of Deep Networks |                        |  |  |  |
|             |        | Andrew Collins   | Huron HS               |  |  |  |
| Place       | Code   | Organization Name  |                        | Organization Description   |  |  |
| 1-ST        | AMS    | American Meteorological Society  |                        | Certificate of outstanding achievement   |  |  |
| НМ          | ASA    | American Statistical Association (<br>Chapters                             | ASA), Michigan         | Certificate of Recognition   |  |  |
| 1-ST        | NASA   | NASA Earth System Science  |                        | Certificate of Recognition-MSEF  |  |  |
| 1           | NOAA   | United States Department of Con<br>Atmosphere                              | nmerce Oceans and      | Certificate of Recognition   |  |  |
| 4           | STATE  | MSEF   |                        | Fourth Place Award of \$50 Cash Award  |  |  |
| Alayna Sc   | anlon  | Effect of Fertilizer on Plant Gr   | owth                   |  |  |  |
| Alaylla Sc  | amon   | Pamela Clark   | Oakland Christian      | School-MS  |  |  |
| Place       | Code   | Organization Name  | Oakiana emistian       | Organization Description   |  |  |
| 1           | EPA    | Environmental Protection Agency  | V                      | Congratulatory Letter of encourgement  |  |  |
|             |        |  | ,                      | , ,  |  |  |
| Alexa San   | chez   | Can Copper Foil Snails?  |                        |  |  |  |
|             |        | Pamela Clark   | Oakland Christian      | School-MS  |  |  |
| Place       | Code   | Organization Name  |                        | Organization Description   |  |  |
| 1           | EPA    | Environmental Protection Agency  | У                      | Congratulatory Letter of encourgement  |  |  |
| 1           | JIC    | Thermo Fisher Scientific-Junior In   | nnovators Challenge    | Student is nominated for competition in the Thermo Fisher Scientific-Junior Innovators Challenge. Register online at: https://www.societyforscience.org/jic/for-nominees/ and use password of USMI02 |  |  |
| 1JR         | USNAVY | United States Navy   |                        | Letter of Congratulations, ONR Medallion, Naval Science Award Certificate  |  |  |
| Alexande    | r Pugh | Sound Waves Protecting the O   | Great Lakes from Asiar | n Carp   |  |  |
|             | 0      | _  | Larson Middle Sch      | ·  |  |  |
|             |        | David Egan   | Larson ivildule Scr    | 100I   |  |  |

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| CertificateN<br>1 | JIC    | Title<br>Teacher<br>Thermo Fisher Scientific-Junior Inno | School<br>ovators Challenge | Student is nominated for competition in the Thermo Fisher Scientific-Junior Innovators Challenge. Register online at: https://www.societyforscience.org/jic/for-nominees/ and use password of USMI02 |
|-------------------|--------|--|-----------------------------|--|
| Alexia Phill      | ips    | Music Memory   |                             | _  |
|                   |        | Pamela Clark   | Oakland Christian           | School-MS  |
| Place             | Code   | Organization Name  |                             | Organization Description   |
| 1                 | JIC    | Thermo Fisher Scientific-Junior Inno                     | ovators Challenge           | Student is nominated for competition in the Thermo Fisher Scientific-Junior Innovators Challenge. Register online at: https://www.societyforscience.org/jic/for-nominees/ and use password of USMI02 |
| Allen Beacl       | hem    | Sporty Drink Sensation                                   |                             |  |
|                   |        | Yolonda Massey   | Pasteur Middle Sc           | hool   |
| Place             | Code   | Organization Name  |                             | Organization Description   |
| 1                 | JIC    | Thermo Fisher Scientific-Junior Inno                     | ovators Challenge           | Student is nominated for competition in the Thermo Fisher Scientific-Junior Innovators Challenge. Register online at: https://www.societyforscience.org/jic/for-nominees/ and use password of USMI02 |
| Alyson Dai        |        | How Can We Make PLA Home C                               | ompostable?                 |  |
|                   |        | Patricia Hanlan  | Detroit Country Da          | ay Upper   |
| Place             | Code   | Organization Name  |                             | Organization Description   |
| 1SR               | ASMDET | ASM - Detroit Chapter                                    |                             | Certificate of accomplishment and complementary admission to/recognition at chapter dinner meeting.  |
| 1-ST              | AWG    | Association of Women GeoScientist                        | :s                          | Awards Certificate for MSEF  |
| 5                 | STATE  | MSEF   |                             | Selected for competition into the Michigan Science and Engineering Fair on March 15, 2023.   |
| 3                 | SWE    | Society of Women Engineers - Detr                        | oit                         | Certificate of recognition, gift basket, invitation to SWE Detroit banquet   |
| 1SR               | USNAVY | United States Navy                                       |                             | Letter of Congratulations, ONR Medallion, Naval Science Award Certificate, and \$50 gift card  |

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| ortificato      | Namo          | Title<br>Teacher                                   | School                    |  |
|-----------------|---------------|--|---------------------------|--|
| CertificateName |               |  |                           |  |
| Amaya Ru        | uiz           | What candles burn quicker,                         |                           |  |
|                 |               | Carol Smuk   | Academy of the A          | mericas-Middle School  |
|                 | Code          | Organization Name                                  |                           | Organization Description   |
| 3JR             | SHPE          | Society of Hispanic Professional                   | Engineers                 | Certificate of Recognition & Small Gift  |
| Ameer Soofi     |               | The weight of a bowling balls                      | s effect on performance   |  |
|                 |               | Talath Ansari                                      | Crescent Academy          | y International  |
| Place           | Code          | Organization Name                                  |                           | Organization Description   |
| 1               | JIC           | Thermo Fisher Scientific-Junior                    | Innovators Challenge      | Student is nominated for competition in the Thermo Fisher Scientific-Junior Innovators Challenge. Register online at:  |
|                 |               |  |                           | https://www.societyforscience.org/jic/for-nominees/ and use password of USMI02   |
| Ammarah         | ı Khan        | Problematic Pactolian Pendu                        | ulums                     |  |
|                 |               | Talath Ansari                                      | Crescent Academy          | y International  |
| Place           | Code          | Organization Name                                  |                           | Organization Description   |
| 1               | JIC           | Thermo Fisher Scientific-Junior                    | Innovators Challenge      | Student is nominated for competition in the Thermo Fisher Scientific-Junior Innovators Challenge. Register online at: https://www.societyforscience.org/jic/for-nominees/ and use password of USMI02 |
| 1JR             | SHPE          | Society of Hispanic Professional                   | Engineers                 | Certificate of Recognition & Small Gift  |
| Andrew V        | Vagner with O | livia Hydrogen and Oxygen Produ                    | uction from a Dry Cell to | Start a Sustainable Engine   |
| Wagner          |               |  |                           |  |
| Wagner          |               | Clare Wagner                                       | MSEF-Nouvel Cath          | nolic Central  |
|                 | Code          | Clare Wagner Organization Name                     | MSEF-Nouvel Cath          | Organization Description   |
|                 | Code          | _  |                           |  |
| Place           |               | Organization Name American Statistical Association | (ASA), Michigan           | Organization Description   |

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|             |                                | Title   |                      |  |
|-------------|--------------------------------|---|----------------------|--|
| Certificate | Name                           | Teacher   | School               |  |
|             | i with Edward<br>Meichun Zhang | Manipulating Mosquito Sex-Spe                                 | cific Development to | Produce Incompatible Males   |
|             |                                | David Chapman   | MSEF-Okemos High     | h School   |
| Place       | Code                           | Organization Name   |                      | Organization Description   |
| 5           | STATE                          | MSEF  |                      | Selected for competition into the Michigan Science and Engineering Fair on March 15, 2023. |
| Angel Tes   | ta                             | The Pothole Problem!  |                      |  |
|             |                                | Dr. George Goff   | Harms Elementary     | School   |
| Place       | Code                           | Organization Name   |                      | Organization Description   |
| 1           | EPA                            | Environmental Protection Agency                               |                      | Congratulatory Letter of encourgement  |
| Anirudh V   | /enkat                         | Applications of Quantum Rando                                 | mness in Healthcare  | Informatics  |
|             |                                | Andrew Collins  | Huron HS             |  |
| Place       | Code                           | Organization Name   |                      | Organization Description   |
| 4           | ASEIO                          | American Society of Engineers of In                           | idian Origin         | Certificate, \$15 Gift card, Invitation to enter ASEI National YTE                         |
| 1           | ISEF                           | ISEF  |                      | SEFMD ISEF Finalist for 2022, May 8-13, 2022   |
| 15          | SIGXI                          | Sigma Xi-Univ of Mich Chapter                                 |                      | Certificate of award and cash award in the Senior Division                                 |
| 4           | STATE                          | MSEF  |                      | Fourth Place Award of \$50 Cash Award  |
| Anita Gae   | nko                            | Gold 'hedgehog' nanoparticles:                                | synthesis and graph  | theoretical analysis   |
|             |                                | Andrew Collins  | Huron HS             |  |
| Place       | Code                           | Organization Name   |                      | Organization Description   |
| 3           | ASEIO                          | American Society of Engineers of In                           | idian Origin         | Certificate, \$20 Gift card, Invitation to enter ASEI National YTE                         |
| 15          | SIGXI                          | Sigma Xi-Univ of Mich Chapter                                 |                      | Certificate of award and cash award in the Senior Division                                 |
| Anjika Du   | tta-choudhary                  | Does the color of the clothing a                              | ffect how much heat  | it absorbs?  |
|             |                                | Song Song   | Boulan Park Middle   | e School   |
| Place       | Code                           | Organization Name   |                      | Organization Description   |
| 3JR         | ASHRAE                         | Amercian Society of Heating, Refrig<br>Conditioning Engineers | erating and Air      | Book and Certificate   |

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|                 | Title   |  |
|-----------------|---|--|
| CertificateName | Teacher School  |  |
| 1 JIC           | Thermo Fisher Scientific-Junior Innovators Challenge                      | Student is nominated for competition in the Thermo Fisher Scientific-Junior Innovators Challenge. Register online at: https://www.societyforscience.org/jic/for-nominees/ and use password of USMI02 |
| Anna Stuntz     | Do Common Household Electronics Work After Exp                            | posure to the Moon Environment?  |
|                 | Wendy Mayer Roeper Middle So  | chool  |
| Place Code      | Organization Name   | Organization Description   |
| 1 JIC           | Thermo Fisher Scientific-Junior Innovators Challenge                      | Student is nominated for competition in the Thermo Fisher Scientific-Junior Innovators Challenge. Register online at: https://www.societyforscience.org/jic/for-nominees/ and use password of USMI02 |
| Anna Wang       | Rapid SARS-CoV-2 Detection with "FALCON" based                            | on type I CRISPR-Cas system  |
|                 | Stephanie Kokoszka Cranbrook Kingsv                                       | wood Upper School  |
| Place Code      | Organization Name   | Organization Description   |
| 5 STATE         | MSEF  | Selected for competition into the Michigan Science and Engineering Fair on March 15, 2023.   |
| Anthony Daoud   | Assessing Microplastics and Genotoxicity of Rivers                        | in the Great Lakes Bay Area  |
|                 | Matthew Miller MSEF-Saginaw Ar  | rts and Sciences   |
| Place Code      | Organization Name   | Organization Description   |
| 1-ST AMS        | American Meteorological Society   | Certificate of outstanding achievement   |
| 1 LTU-S         | LTU STEM Scholarship  | Scholarship to LTU in the annual amount of \$19,650, renewable up to \$78,600 over 8 semesters, good for any undergrad major   |
| 2 STATE         | MSEF  | Second Place Award of \$100 Cash Award   |
| Anthony Yang    | Mathematical Formula to Predict The COVID Infect                          | cion Probability   |
|                 | Steve Armstrong Pioneer HS  |  |
| Place Code      | Organization Name   | Organization Description   |
| 1SR ASHRAE      | Amercian Society of Heating, Refrigerating and Air Conditioning Engineers | Book and Certificate   |

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| CertificateName Teacher School  Selected for competition into the Michigan Science and Engine March 15, 2023.  1-ST USNAVY United States Navy Letter of Congratulations, ONR Medallion, Naval Science Award and \$75 gift card  Armaan Dev Restraint Optimization for Frontal Impact Occupant Crash Protection Patricia Hanlan Detroit Country Day Upper Place Code Organization Name Organization Description  S STATE MSEF Selected for competition into the Michigan Science and Engine March 15, 2023.  Armaan Mahajan Assessing the Assimilation of Heavy Metals in Margaritifera margaritifera as a Matthew Miller MSEF-Saginaw Arts and Sciences Place Code Organization Name Organization Description  S STATE MSEF Selected for competition into the Michigan Science and Engine March 15, 2023.  Armita Marpu with Sathwika Uttaradi Jackie Toepel International Academy-East Campus Place Code Organization Name Organization Description  3SR ASHRAE Amercian Society of Heating, Refrigerating and Air Conditioning Engineers  2SR ASMDET ASM - Detroit Chapter Certificate of accomplishment and complementary admission at chapter dinner meeting.   | -              |
|---|----------------|
| Armaan Dev Restraint Optimization for Frontal Impact Occupant Crash Protection Patricia Hanlan Detroit Country Day Upper Place Code Organization Name Organization Description STATE MSEF Selected for competition into the Michigan Science and Engine March 15, 2023.  Armaan Mahajan Assessing the Assimilation of Heavy Metals in Margaritifera margaritifera as a Matthew Miller MSEF-Saginaw Arts and Sciences Place Code Organization Name Organization Description STATE MSEF Selected for competition into the Michigan Science and Engine March 15, 2023.  Armaan Mahajan Assessing the Assimilation of Heavy Metals in Margaritifera margaritifera as a Matthew Miller MSEF-Saginaw Arts and Sciences Place Code Organization Name Organization Description Selected for competition into the Michigan Science and Engine March 15, 2023.  Armita Marpu with Sathwika Uttaradi Jackie Toepel International Academy-East Campus Place Code Organization Name Organization Description  3SR ASHRAE American Society of Heating, Refrigerating and Air Book and Certificate Conditioning Engineers Certificate of accomplishment and complementary admission at chapter dinner meeting.   | -              |
| Armaan Dev Restraint Optimization for Frontal Impact Occupant Crash Protection Patricia Hanlan Detroit Country Day Upper  Place Code Organization Name Organization Description  5 STATE MSEF Selected for competition into the Michigan Science and Engine March 15, 2023.  Armaan Mahajan Assessing the Assimilation of Heavy Metals in Margaritifera margaritifera as a Matthew Miller MSEF-Saginaw Arts and Sciences  Place Code Organization Name Organization Description  5 STATE MSEF Selected for competition into the Michigan Science and Engine March 15, 2023.  Armita Marpu with Sathwika Uttaradi  Armita Marpu with Sathwika Uttaradi  Place Code Organization Name Organization Description  3SR ASHRAE Amercian Society of Heating, Refrigerating and Air Conditioning Engineers  2SR ASMDET ASM - Detroit Chapter Certificate of accomplishment and complementary admission at chapter dinner meeting.   | d Certificate, |
| Place Code Organization Name Organization Description  Selected for competition into the Michigan Science and Engine March 15, 2023.  Armaan Mahajan Assessing the Assimilation of Heavy Metals in Margaritifera margaritifera as a Matthew Miller MSEF-Saginaw Arts and Sciences  Place Code Organization Name Organization Description  STATE MSEF Selected for competition into the Michigan Science and Engine March 15, 2023.  Armita Marpu with Sathwika Uttaradi  Jackie Toepel International Academy-East Campus  Place Code Organization Name Organization Description  3SR ASHRAE Amercian Society of Heating, Refrigerating and Air Conditioning Engineers  2SR ASMDET ASM - Detroit Chapter Certificate of accomplishment and complementary admission at chapter dinner meeting.  |                |
| Place Code Organization Name Organization Description  Selected for competition into the Michigan Science and Engine March 15, 2023.  Armaan Mahajan Assessing the Assimilation of Heavy Metals in Margaritifera margaritifera as a Matthew Miller MSEF-Saginaw Arts and Sciences  Place Code Organization Name Organization Description  Selected for competition into the Michigan Science and Engine March 15, 2023.  Armita Marpu with Sathwika Uttaradi  Place Code Organization Name Organization Description  Armita Marpu with Sathwika Uttaradi  Place Code Organization Name Organization Description  Selected for competition into the Michigan Science and Engine March 15, 2023.  Armita Marpu with Sathwika Uttaradi  Jackie Toepel International Academy-East Campus  Organization Description  Selected for competition into the Michigan Science and Engine March 15, 2023.  Armita Marpu with Sathwika Uttaradi  Jackie Toepel International Academy-East Campus  Organization Description  Selected for competition into the Michigan Science and Engine March 15, 2023.  Armita Marpu with Sathwika Uttaradi  Jackie Toepel International Academy-East Campus  Organization Description  Selected for competition into the Michigan Science and Engine March 15, 2023.  Armita Marpu with Selected for competition into the Michigan Science and Engine March 15, 2023.  Armita Marpu with Selected for competition into the Michigan Science and Engine March 15, 2023.  Armita Marpu with Selected for competition into the Michigan Science and Engine March 15, 2023.  Armita Marpu with Selected for competition into the Michigan Science and Engine March 15, 2023.  Armita Marpu with Selected for competition into the Michigan Science and Engine March 15, 2023.  Armita Marpu with Selected for competition into the Michigan Science and Engine March 15, 2023.  Armita Marpu with Selected for competition into the Michigan Science and Engine March 15, 2023.  Armita Marpu with Selected for competition into the Michigan Science and Engine March 15, 2023. |                |
| Selected for competition into the Michigan Science and Engine March 15, 2023.  Armaan Mahajan Assessing the Assimilation of Heavy Metals in Margaritifera margaritifera as a Matthew Miller MSEF-Saginaw Arts and Sciences  Place Code Organization Name Organization Description  Selected for competition into the Michigan Science and Engine March 15, 2023.  Armita Marpu with Sathwika Uttaradi  Jackie Toepel International Academy-East Campus  Place Code Organization Name Organization Description  3SR ASHRAE Amercian Society of Heating, Refrigerating and Air Conditioning Engineers  2SR ASMDET ASM - Detroit Chapter Certificate of accomplishment and complementary admission at chapter dinner meeting.  |                |
| Armaan Mahajan  Assessing the Assimilation of Heavy Metals in Margaritifera margaritifera as a  Matthew Miller  MSEF-Saginaw Arts and Sciences  Place Code  Organization Name  Organization Description  Selected for competition into the Michigan Science and Engine March 15, 2023.  Armita Marpu with Sathwika Uttaradi  Jackie Toepel  International Academy-East Campus  Place Code  Organization Name  Organization Description  3SR ASHRAE  Amercian Society of Heating, Refrigerating and Air Conditioning Engineers  2SR ASMDET  ASM - Detroit Chapter  Certificate of accomplishment and complementary admission at chapter dinner meeting.  |                |
| Matthew Miller  MSEF-Saginaw Arts and Sciences  Place Code  Organization Name  Organization Description  Selected for competition into the Michigan Science and Engine March 15, 2023.  Armita Marpu with Sathwika Uttaradi  Armita Marpu with Sathwika Uttaradi  Jackie Toepel International Academy-East Campus  Place Code Organization Name Organization Description  3SR ASHRAE Amercian Society of Heating, Refrigerating and Air Conditioning Engineers  2SR ASMDET ASM - Detroit Chapter Certificate of accomplishment and complementary admission at chapter dinner meeting.   | ering Fair on  |
| Place Code  5 STATE  MSEF  MSEF  MSEF  MSEF  MSEF  Selected for competition into the Michigan Science and Engine March 15, 2023.  Armita Marpu with Sathwika Uttaradi  Jackie Toepel  International Academy-East Campus  Place Code  Organization Name  Organization Description  3SR ASHRAE  Amercian Society of Heating, Refrigerating and Air Conditioning Engineers  2SR ASMDET  ASM - Detroit Chapter  Organization Description  Book and Certificate  Certificate of accomplishment and complementary admission at chapter dinner meeting.  |                |
| Selected for competition into the Michigan Science and Engine March 15, 2023.  Armita Marpu with Sathwika Uttaradi  Jackie Toepel International Academy-East Campus  Place Code Organization Name Organization Description  3SR ASHRAE Amercian Society of Heating, Refrigerating and Air Conditioning Engineers  2SR ASMDET ASM - Detroit Chapter Certificate of accomplishment and complementary admission at chapter dinner meeting.   |                |
| Armita Marpu with Sathwika Uttaradi  Jackie Toepel International Academy-East Campus  Place Code Organization Name Organization Description  3SR ASHRAE Amercian Society of Heating, Refrigerating and Air Conditioning Engineers  2SR ASMDET ASM - Detroit Chapter Certificate of accomplishment and complementary admission at chapter dinner meeting.  |                |
| Sathwika Uttaradi  Jackie Toepel International Academy-East Campus  Place Code Organization Name Organization Description  3SR ASHRAE Amercian Society of Heating, Refrigerating and Air Conditioning Engineers  2SR ASMDET ASM - Detroit Chapter Certificate of accomplishment and complementary admission at chapter dinner meeting.  | ering Fair on  |
| Place Code Organization Name Organization Description  3SR ASHRAE Amercian Society of Heating, Refrigerating and Air Conditioning Engineers  2SR ASMDET ASM - Detroit Chapter Certificate of accomplishment and complementary admission at chapter dinner meeting.  |                |
| Amercian Society of Heating, Refrigerating and Air Conditioning Engineers  2SR ASMDET ASM - Detroit Chapter Certificate Certificate of accomplishment and complementary admission at chapter dinner meeting.  |                |
| Conditioning Engineers  2SR ASMDET ASM - Detroit Chapter Certificate of accomplishment and complementary admission at chapter dinner meeting.   |                |
| at chapter dinner meeting.  |                |
|   |                |
| 1 NASA NASA Earth System Science Certificate of Recognition   | o/recognitio   |
| 5 STATE MSEF Selected for competition into the Michigan Science and Engine March 15, 2023.  | o/recognitio   |
| Arnav Nikam Is It Red? AI Powered Traffic Control Sensor  |                |
| David Egan Larson Middle School   |                |
| Place Code Organization Name Organization Description   |                |

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|                         |                     | Title                                     |                            |  |
|-------------------------|---------------------|---|----------------------------|--|
| Certificate             | Name                | Teacher                                   | School                     |  |
| 1ST                     | DOD                 | DOD-STEM award from Societ                | y for Science              | DOD STEM Leadership Prize certificate, voucher for \$100   |
| 2                       | IEEE                | IEEE Southeastern Michigan Se             | ection                     | Frameable Certificate  |
| 1                       | JIC                 | Thermo Fisher Scientific-Junio            | r Innovators Challenge     | Student is nominated for competition in the Thermo Fisher Scientific-Junior Innovators Challenge. Register online at: https://www.societyforscience.org/jic/for-nominees/ and use password of USMI02 |
| Aryasai Ra              | ıdhakrishnan        | What am I crying                          |                            |  |
|                         |                     | Laura Luckins                             | Detroit Country Da         | y Upper  |
| Place                   | Code                | Organization Name                         |                            | Organization Description   |
| 1SR                     | USNAVY              | United States Navy                        |                            | Letter of Congratulations, ONR Medallion, Naval Science Award Certificate, and \$50 gift card  |
| Ashika Gu<br>Fayyaz Raz | llapalli with<br>zi | Survey and DNA Barcoding                  | of Invasive Plant Species  | in Southwest Michigan  |
|                         |                     | Rebecca Joyce                             | Kalamazoo Area M           | ath and Science Center   |
| Place                   | Code                | Organization Name                         |                            | Organization Description   |
| НМ                      | ASA                 | American Statistical Association Chapters | on (ASA), Michigan         | Certificate of Recognition   |
| 1                       | EPA                 | Environmental Protection Age              | ncy                        | Congratulatory Letter of encourgement  |
| 4                       | STATE               | MSEF                                      |                            | Fourth Place Award of \$50 Cash Award  |
| Ashrita Re              | ddy                 | Differential Gene Expression              | on Analysis of Autism Spec | trum Disorder  |
|                         |                     | Karen Lamb                                | Detroit Country Da         | y Upper  |
| Place                   | Code                | Organization Name                         |                            | Organization Description   |
| 6                       | ASEIO               | American Society of Engineers             | of Indian Origin           | Certificate, \$15 Gift card, Invitation to enter ASEI National YTE   |
| Ashwin Ma               | ahendran            | Novel Machine Learning Sc                 | olution for EEG Research   |  |
|                         |                     | Jonathan Jones                            | Dakota High Schoo          | I  |
| Place                   | Code                | Organization Name                         |                            | Organization Description   |
| 1                       | ISEF                | ISEF                                      |                            | SEFMD ISEF Finalist for 2022, May 8-13, 2022   |

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|                     |                | Title                                     |                        |  |
|---------------------|----------------|---|------------------------|--|
| Certificate         | Name           | Teacher                                   | School                 |  |
| 1                   | LTU-S          | LTU STEM Scholarship                      |                        | Scholarship to LTU in the annual amount of \$19,650, renewable up to \$78,600 over 8 semesters, good for any undergrad major |
| 3                   | STATE          | MSEF                                      |                        | Third Place Award of \$75 Cash Award   |
| Austin Fe           | ng             | Pattern of IRG1/Acod1 expre               | ssion in the tumor mid | croenvironment   |
|                     |                | Stephanie Kokoszka                        | Cranbrook Kingsv       | wood Upper School  |
| Place               | Code           | Organization Name                         |                        | Organization Description   |
| НМ                  | ASA            | American Statistical Association Chapters | (ASA), Michigan        | Certificate of Recognition   |
| 1                   | ISEF           | ISEF                                      |                        | SEFMD ISEF Finalist for 2022, May 8-13, 2022   |
| 4                   | STATE          | MSEF                                      |                        | Fourth Place Award of \$50 Cash Award  |
| 2                   | WEIZ           | American Committee for the We Science     | eizmann Institute of   | Alternate for all expense paid trip to the Weizmann Institute of Science in Rehovot, Israel from July 4-27, 2023             |
| Ava White           | e              | Oxidation: A Study of Rusting             | g Nails                |  |
|                     |                | Audrey Richardson                         | Renaissance High       | n School   |
| Place               | Code           | Organization Name                         |                        | Organization Description   |
| 5                   | STATE          | MSEF                                      |                        | Selected for competition into the Michigan Science and Engineering Fair of March 15, 2023.                                   |
| Aya Alom<br>Shehadi | ari with Sabri | ina Optimizing Sustainability Plan        | ns for US States       |  |
|                     |                | Renee Zacks                               | Detroit Country [      | Day Upper  |
| Place               | Code           | Organization Name                         |                        | Organization Description   |
| 2-SR                | AIRWAS         | Air Waste Management Associat             | tion                   | Certificate and \$200 second place award   |
| 1                   | EPA            | Environmental Protection Agenc            | CY                     | Congratulatory Letter of encourgement  |
| 5                   | STATE          | MSEF                                      |                        | Selected for competition into the Michigan Science and Engineering Fair or March 15, 2023.                                   |
| Aydin Kha           | an             | Caffeine Hurts                            |                        |  |
|                     |                | Zehra Beg                                 | Huda Upper Scho        | pol  |
| Place               | Code           | Organization Name                         |                        | Organization Description   |

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|                 | Title                           |                      |  |
|-----------------|---------------------------------|----------------------|--|
| CertificateName | Teacher                         | School               |  |
| 1 JIC           | Thermo Fisher Scientific-Junior | Innovators Challenge | Student is nominated for competition in the Thermo Fisher Scientific-Junior Innovators Challenge. Register online at: https://www.societyforscience.org/jic/for-nominees/ and use password of USMI02 |
| 1JR USNAVY      | United States Navy              |                      | Letter of Congratulations, ONR Medallion, Naval Science Award Certificate  |
| Ayesha Bhutta   | The C in Vitamins               |                      |  |
|                 | Wajida Taj                      | Tawheed Center S     | School   |
| Place Code      | Organization Name               |                      | Organization Description   |
| 1 JIC           | Thermo Fisher Scientific-Junior | Innovators Challenge | Student is nominated for competition in the Thermo Fisher Scientific-Junior Innovators Challenge. Register online at: https://www.societyforscience.org/jic/for-nominees/ and use password of USMI02 |
| Ayesha Rahman   | Lets get loud with speakers     |                      |  |
|                 | Talath Ansari                   | Crescent Academ      | y International  |
| Place Code      | Organization Name               |                      | Organization Description   |
| 1 JIC           | Thermo Fisher Scientific-Junior | Innovators Challenge | Student is nominated for competition in the Thermo Fisher Scientific-Junior Innovators Challenge. Register online at: https://www.societyforscience.org/jic/for-nominees/ and use password of USMI02 |
| Ayesha Syeda    | Water Filters                   |                      |  |
|                 | Suzanne Thebert                 | Michigan Math ar     | nd Science Academy-MS  |
| Place Code      | Organization Name               |                      | Organization Description   |
| 1 JIC           | Thermo Fisher Scientific-Junior | Innovators Challenge | Student is nominated for competition in the Thermo Fisher Scientific-Junior Innovators Challenge. Register online at: https://www.societyforscience.org/jic/for-nominees/ and use password of        |
|                 |                                 |                      | USMI02   |

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| Certificatel | Name          | Title<br>Teacher                     | School                           |  |
|--------------|---------------|--------------------------------------|----------------------------------|--|
| Ayleen Zar   | rate- Huichan | Candle carousel                      |                                  |  |
|              |               | William Tucker                       | Holy Redeemer Ca                 | atholic Grade School   |
| Place        | Code          | Organization Name                    |                                  | Organization Description   |
| 1            | JIC           | Thermo Fisher Scientific-Junior Inno | ovators Challenge                | Student is nominated for competition in the Thermo Fisher Scientific-Junior Innovators Challenge. Register online at: https://www.societyforscience.org/jic/for-nominees/ and use password of USMI02 |
| Brandon H    | Holmon        | The effects of water quality on t    | he color of aquatic <sub>l</sub> | plants   |
|              |               | Leanne Peebles                       | Foreign Language                 | Immerson and Cultural Studies  |
| Place        | Code          | Organization Name                    |                                  | Organization Description   |
| 1            | JIC           | Thermo Fisher Scientific-Junior Inno | ovators Challenge                | Student is nominated for competition in the Thermo Fisher Scientific-Junior Innovators Challenge. Register online at: https://www.societyforscience.org/jic/for-nominees/ and use password of USMI02 |
| Brian Zhar   | ng            | Towards Early Detection of Auti      | sm Spectrum Disord               | ler  |
|              |               | Gabriel Pak                          | Northville High Sc               | hool   |
| Place        | Code          | Organization Name                    |                                  | Organization Description   |
| 5            | STATE         | MSEF                                 |                                  | Selected for competition into the Michigan Science and Engineering Fair on March 15, 2023.   |
| 1SR          | USNAVY        | United States Navy                   |                                  | Letter of Congratulations, ONR Medallion, Naval Science Award Certificate, and $$50\ gift\ card$   |
| Brooklyn N   | Martin        | Having Fun with Mathematics!         |                                  |  |
|              |               | Dr. George Goff                      | Harms Elementary                 | y School   |
| Place        | Code          | Organization Name                    |                                  | Organization Description   |
| 1            | EPA           | Environmental Protection Agency      |                                  | Congratulatory Letter of encourgement  |

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|                        |               | Title                                |                     |   |
|------------------------|---------------|--------------------------------------|---------------------|---|
| ertificate             | Name          | Teacher                              | School              |   |
| Brooks Do<br>Nathan Le | onaldson with | Keep it in the Foam-ly               |                     |   |
|                        |               | Jamie Hilliard                       | Macomb Mathem       | atics Science Technology Center   |
| Place                  | Code          | Organization Name                    |                     | Organization Description  |
| 5                      | STATE         | MSEF                                 |                     | Selected for competition into the Michigan Science and Engineering Fair on March 15, 2023.                            |
| 1                      | USMA          | US Metric Association Award          |                     | Certificate   |
| Cale Jone              | S             | In Quarry                            |                     |   |
|                        |               | Maureen Wickenheiser                 | St. Patrick Elemen  | tary-Carleton, MI - 6-8   |
| Place                  | Code          | Organization Name                    |                     | Organization Description  |
| 1                      | EPA           | Environmental Protection Agency      |                     | Congratulatory Letter of encourgement   |
| 1J                     | SIGXI         | Sigma Xi-Univ of Mich Chapter        |                     | Certificate of award and cash award in the Junior Division  |
| Caleb Lali             | k             | Maximizing the Efficiency of Wir     | nd Turbines         |   |
|                        |               | David Egan                           | Larson Middle Sch   | ool   |
| Place                  | Code          | Organization Name                    |                     | Organization Description  |
| 1                      | EPA           | Environmental Protection Agency      |                     | Congratulatory Letter of encourgement   |
| Carlos Ba              | rragan        | Magnetic Levitation and How It       | Works               |   |
|                        |               | William Tucker                       | Holy Redeemer Ca    | tholic Grade School   |
| Place                  | Code          | Organization Name                    |                     | Organization Description  |
| 1                      | EPA           | Environmental Protection Agency      |                     | Congratulatory Letter of encourgement   |
| 1                      | JIC           | Thermo Fisher Scientific-Junior Inno | ovators Challenge   | Student is nominated for competition in the Thermo Fisher Scientific-Junior Innovators Challenge. Register online at: |
|                        |               |                                      |                     | USMI02  |
| Cash Papı              | uga           | To beet or not to beet?              |                     |   |
| Cash Papı              | uga           | To beet or not to beet?  Gail Golem  | St Joan of Arc Cath | https://www.societyforscience.org/jic/for-nominees/ and use password of USMI02  nolic School-Elementary               |

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| CertificateName<br>1 EPA |                                    | School<br>tion Agency          | Congratulatory Letter of encourgement   |
|--------------------------|------------------------------------|--------------------------------|---|
| Charlie Chen             | Exoplanet Discove                  | -у                             |   |
|                          | Patricia Hanlan                    | Detroit Country I              | Day Upper   |
| Place Code               | Organization Name                  |                                | Organization Description  |
| 1 AM:                    | S American Meteorolog              | ical Society                   | Certificate of outstanding achievement  |
| HM ASA                   | American Statistical A<br>Chapters | ssociation (ASA), Michigan     | Certificate of Recognition  |
| 5 STA                    | TE MSEF                            |                                | Selected for competition into the Michigan Science and Engineering Fair of March 15, 2023.  |
| Charlie Tarasiew         | vicz Sanitizer or Soap?            |                                |   |
|                          | Cynthia Schmitz                    | St. Patrick Eleme              | entary-Whitelake  |
| Place Code               | Organization Name                  |                                | Organization Description  |
| 1 JIC                    | Thermo Fisher Scienti              | ic-Junior Innovators Challenge | Student is nominated for competition in the Thermo Fisher Scientific-Juni Innovators Challenge. Register online at: https://www.societyforscience.org/jic/for-nominees/ and use password USMI02 |
| Charlotte Behr           | Scent-sory Testing                 |                                |   |
|                          | Cynthia Schmitz                    | St. Patrick Eleme              | entary-Whitelake  |
| Place Code               | Organization Name                  |                                | Organization Description  |
| 1 JIC                    | Thermo Fisher Scienti              | ic-Junior Innovators Challenge | Student is nominated for competition in the Thermo Fisher Scientific-Juni Innovators Challenge. Register online at: https://www.societyforscience.org/jic/for-nominees/ and use password USMI02 |
| Chelsea Snyder           | Plants In Different                | Growth Mediums                 |   |
|                          | Sharon Holloway                    | Davis Aerospace                | Technical High School   |
| Place Code               | Organization Name                  |                                | Organization Description  |
| 5 STA                    | TE MSEF                            |                                | Selected for competition into the Michigan Science and Engineering Fair of March 15, 2023.  |

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| CertificateName    | Title<br>Teacher                | School                    |  |
|--------------------|---------------------------------|---------------------------|--|
| Chloe Shunia       | How effective are various d     | lisinfectants on eliminat | ing bacteria?  |
|                    | Cynthia Schmitz                 | St. Patrick Elemer        | ntary-Whitelake  |
| Place Code         | Organization Name               |                           | Organization Description   |
| 1 EPA              | Environmental Protection Age    | ncy                       | Congratulatory Letter of encourgement  |
| 1 JIC              | Thermo Fisher Scientific-Junion | Innovators Challenge      | Student is nominated for competition in the Thermo Fisher Scientific-Junior Innovators Challenge. Register online at: https://www.societyforscience.org/jic/for-nominees/ and use password of USMI02 |
| Chris Androff      | Does the type of liquid affe    | ct the strength of paper  | towel?   |
|                    | Cynthia Schmitz                 | St. Patrick Elemer        | ntary-Whitelake  |
| Place Code         | Organization Name               |                           | Organization Description   |
| 1 JIC              | Thermo Fisher Scientific-Junion | r Innovators Challenge    | Student is nominated for competition in the Thermo Fisher Scientific-Junior Innovators Challenge. Register online at: https://www.societyforscience.org/jic/for-nominees/ and use password of USMI02 |
| Christopher Bragg  | How Long Will it Burn           |                           |  |
|                    | Jenna Livingston                | Michigan Math a           | nd Science Academy-HS  |
| Place Code         | Organization Name               |                           | Organization Description   |
| 1 EPA              | Environmental Protection Age    | ncy                       | Congratulatory Letter of encourgement  |
| Christopher Vargas | Basketball Bouncing Physic      | S                         |  |
|                    | William Tucker                  | Holy Redeemer C           | atholic Grade School   |
| Place Code         | Organization Name               |                           | Organization Description   |
| 1 JIC              | Thermo Fisher Scientific-Junion | r Innovators Challenge    | Student is nominated for competition in the Thermo Fisher Scientific-Junior Innovators Challenge. Register online at: https://www.societyforscience.org/jic/for-nominees/ and use password of USMI02 |

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| CertificateNar | me      | Title<br>Teacher                              | School                 |  |
|----------------|---------|---|------------------------|--|
| Clifford Wash  | nington | How Different Coffee Brands Eff               | ect Daphnia Heart Ra   | ate  |
|                |         | Sharon Holloway                               | Davis Aerospace Te     | echnical High School   |
| Place Co       | ode     | Organization Name                             |                        | Organization Description   |
| 5 S            | STATE   | MSEF  |                        | Selected for competition into the Michigan Science and Engineering Fair on March 15, 2023.   |
| Connor Kalka   | anis    | Innovative Combination Therapy                | / for Treating Brain T | umors  |
|                |         | Lara Mcmillan                                 | Detroit Country Da     | y Upper  |
| Place Co       | ode     | Organization Name                             |                        | Organization Description   |
| HM A           | ASA     | American Statistical Association (AS Chapters | A), Michigan           | Certificate of Recognition   |
| 1-ST E         | BIOMED  | Regeneron BioMedical Award                    |                        | Award Certificate, special recognition, and \$500 award  |
| 1-ST II        | NVITR   | Society for In Vitro Biology                  |                        | Certificate of Achievement   |
| 1-ST I         | SEF     | ISEF  |                        | MSEF ISEF Finalist for 2022, May 8-13, 2022  |
| 3SR S          | SHPE    | Society of Hispanic Professional Eng          | gineers                | Certificate of Recognition & Small Gift  |
| 0 S            | STATE   | MSEF  |                        | Grand Award - MSEF Student is invited to participate in the International Science & Engineering Fair, plus \$250 Cash Award  |
| Daisy Jurado   |         | Which moisturizer moisturizes t               | he best?               |  |
|                |         | Carol Smuk                                    | Academy of the An      | nericas-Middle School  |
| Place Co       | ode     | Organization Name                             |                        | Organization Description   |
| 1 J            | IC      | Thermo Fisher Scientific-Junior Inno          | ovators Challenge      | Student is nominated for competition in the Thermo Fisher Scientific-Junior Innovators Challenge. Register online at: https://www.societyforscience.org/jic/for-nominees/ and use password of USMI02 |

| Daniel Burke | Effect of Lead Uptake on Growth and Tissue Composition of Plants |  |  |
|--------------|--|--|--|
|              | Claudia Foerg  | University of Detroit Jesuit High School |  |
| Place Code   | Organization Name  | Organization Description                 |  |
| 1 EPA        | <b>Environmental Protection Agency</b>                           | Congratulatory Letter of encourgement    |  |

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|                    |                 | Title   |                      |  |
|--------------------|-----------------|---|----------------------|--|
| ertificate         | eName           | Teacher   | School               |  |
| 5                  | STATE           | MSEF  |                      | Selected for competition into the Michigan Science and Engineering Fair on March 15, 2023.   |
| Daniela Z          | avala- Jungo    | How many hours of sun does a p                        | plant need?          |  |
|                    |                 | Carol Smuk  | Academy of the A     | mericas-Middle School  |
| Place              | Code            | Organization Name                                     |                      | Organization Description   |
| 1                  | JIC             | Thermo Fisher Scientific-Junior Inno                  | vators Challenge     | Student is nominated for competition in the Thermo Fisher Scientific-Junior Innovators Challenge. Register online at: https://www.societyforscience.org/jic/for-nominees/ and use password of USMI02 |
| Darsh Ma           | ahendrakar      | Go Go Trash Me Bot                                    |                      |  |
|                    |                 | Heather Lechner                                       | Plymouth Scholars    | s Middle School  |
| Place              | Code            | Organization Name                                     |                      | Organization Description   |
| 1                  | JIC             | Thermo Fisher Scientific-Junior Inno                  | vators Challenge     | Student is nominated for competition in the Thermo Fisher Scientific-Junio Innovators Challenge. Register online at: https://www.societyforscience.org/jic/for-nominees/ and use password or USMI02  |
| David Pra          | ıkah-asante     | Intracranial Hemorrhage Location                      | on System with Deep  | p Learning Networks  |
|                    |                 | Stephanie Kokoszka                                    | Cranbrook Kingsw     | vood Upper School  |
| Place              | Code            | Organization Name                                     |                      | Organization Description   |
| 1SR                | GLCHPS          | Great Lakes Chapter Health Physics                    | Society              | SR 1st Place Award recognizing outstanding contributions by students in grades 9–12 to the understanding of the applications of radiation and its impact on the environment and health.              |
| 1-SR               | NSBE            | National Society of Black Engineers:<br>Professionals | Detroit              | Senior Division: Certificate of recognition, \$100 stipend and NSBE Jr. Membership   |
| David Rou<br>Gentz | ush with Alisha | Optimizing the Efficiency of Turk                     | oines in Micro Hydro | opower Systems   |
|                    |                 | Jamie Hilliard  | Macomb Mathem        | natics Science Technology Center   |
|                    | Carla           | Organization Name                                     |                      | Organization Description   |
| Place              | Code            | Organization Name                                     |                      | organization bescription   |

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|   |   | Title   |   |  |
|---|---|---|---|--|
| Certificate                                     | Name  | Teacher   | School  |  |
| 1   | SIWI  | Stockholm Junior Water Prize  | e (Stockholm)   | Regional Award and recommendation to compete nationally  |
| 5   | STATE   | MSEF  |   | Selected for competition into the Michigan Science and Engineering Fair on March 15, 2023.   |
| Delaila So                                      | olis-anaya                                      | Which liquid makes a plan   | nt grow best?   |  |
|   |   | Carol Smuk  | Academy of the  | Americas-Middle School   |
| Place   | Code  | Organization Name   |   | Organization Description   |
| 1   | EPA   | Environmental Protection Age  | ency  | Congratulatory Letter of encourgement  |
| Delilah Te                                      | esta  | The Big Three!  |   |  |
|   |   | Dr. George Goff   | Harms Elementa  | ary School   |
| Place   | Code  | Organization Name   |   | Organization Description   |
|   |   |   |   |  |
|   | EPA  Betala with N                              | Environmental Protection Againa Effects of Various Plant Ex   | ·   | Congratulatory Letter of encourgement  f Prostate Cancer Cells   |
| Deshana   |   | Лаіа Effects of Various Plant Ex  | ctracts on the Viability o  | f Prostate Cancer Cells  |
| Deshana<br>Lintner ar<br>Smucker                | Betala with Nand Kennedy                        | Maia Effects of Various Plant Ex  | ctracts on the Viability o  | f Prostate Cancer Cells  a Math and Science Center   |
| Deshana<br>Lintner ar<br>Smucker                | Betala with N                                   | Лаіа Effects of Various Plant Ex  | xtracts on the Viability o  | f Prostate Cancer Cells  |
| Deshana Lintner ar Smucker                      | Betala with Med Kennedy  Code  ASA              | Maia Effects of Various Plant Ex  Rebecca Joyce  Organization Name  American Statistical Associati  | Ktracts on the Viability of<br>Kalamazoo Area<br>ion (ASA), Michigan                                  | f Prostate Cancer Cells  a Math and Science Center  Organization Description  Certificate of Recognition   |
| Deshana<br>Lintner ar<br>Smucker<br>Place<br>HM | Betala with Med Kennedy  Code  ASA              | Rebecca Joyce Organization Name American Statistical Associati  | Ktracts on the Viability of<br>Kalamazoo Area<br>ion (ASA), Michigan                                  | f Prostate Cancer Cells  a Math and Science Center  Organization Description  Certificate of Recognition   |
| Deshana<br>Lintner ar<br>Smucker<br>Place<br>HM | Betala with Med Kennedy  Code  ASA              | Rebecca Joyce Organization Name American Statistical Associati Chapters Use of Artificial Intelligence  | Kalamazoo Area<br>Ion (ASA), Michigan<br>Ce for Obtaining Optima                                      | f Prostate Cancer Cells  a Math and Science Center  Organization Description  Certificate of Recognition   |
| Deshana<br>Lintner ar<br>Smucker<br>Place<br>HM | Betala with Med Kennedy  Code  ASA  Dalal       | Rebecca Joyce Organization Name American Statistical Associati Chapters Use of Artificial Intelligence Rebecca Brewer   | Kalamazoo Area<br>Kalamazoo Area<br>Ion (ASA), Michigan<br>Ce for Obtaining Optima<br>Troy High Schoo | f Prostate Cancer Cells  a Math and Science Center  Organization Description  Certificate of Recognition  I Wrist X-Rays                           |
| Deshana<br>Lintner ar<br>Smucker<br>Place<br>HM | Betala with Med Kennedy  Code  ASA  Dalal  Code | Rebecca Joyce Organization Name American Statistical Associati Chapters  Use of Artificial Intelligence Rebecca Brewer Organization Name American Statistical Associati | Kalamazoo Area ion (ASA), Michigan Troy High School ion (ASA), Michigan                               | f Prostate Cancer Cells  a Math and Science Center Organization Description Certificate of Recognition  I Wrist X-Rays Ol Organization Description |

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| Certificate | Name           | Title<br>Teacher                                | School             |  |
|-------------|----------------|---|--------------------|--|
| Devin Fori  | ney with Tylar | The Liver Challenge                             |                    |  |
| , -         |                | Sonya Mckenney                                  | Gompers Element    | tary-Middle School   |
| Place       | Code           | Organization Name                               |                    | Organization Description   |
| 1           | JIC            | Thermo Fisher Scientific-Junior Inr             | novators Challenge | Student is nominated for competition in the Thermo Fisher Scientific-Junior Innovators Challenge. Register online at: https://www.societyforscience.org/jic/for-nominees/ and use password of USMI02 |
| Diego Var   | gas            | Bigger and Smaller pieces, Whi                  | ch react faster?   |  |
|             |                | William Tucker                                  | Holy Redeemer C    | atholic Grade School   |
| Place       | Code           | Organization Name                               |                    | Organization Description   |
| 1           | EPA            | Environmental Protection Agency                 |                    | Congratulatory Letter of encourgement  |
| Diya Gehla  | aut            | Effect of Alcohol on Fetal Brain                | mTOR System        |  |
|             |                | Jackie Toepel                                   | International Aca  | demy-East Campus   |
| Place       | Code           | Organization Name                               |                    | Organization Description   |
| НМ          | ASA            | American Statistical Association (A<br>Chapters | SA), Michigan      | Certificate of Recognition   |
| 6           | ASEIO          | American Society of Engineers of I              | ndian Origin       | Certificate, \$15 Gift card, Invitation to enter ASEI National YTE   |
| 1           | INVITR         | Society for In Vitro Biology                    |                    | Certificate of Achievement   |
| 1SR         | SHPE           | Society of Hispanic Professional Er             | ngineers           | Certificate of Recognition & Small Gift  |
| 3           | STATE          | MSEF  |                    | Third Place Award of \$75 Cash Award   |
| 1-ST        | USNAVY         | United States Navy                              |                    | Letter of Congratulations, ONR Medallion, Naval Science Award Certificate, and \$75 gift card  |
| Eesa Abdr   | abboh          | How the athlete changes with s                  | stress             |  |
|             |                | Talath Ansari                                   | Crescent Academ    | y International  |
| Place       | Code           | Organization Name                               |                    | Organization Description   |

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| CertificateName<br>1 JIC | Title<br>Teacher<br>Thermo Fisher Scientific-Junior Inno | School<br>ovators Challenge | Student is nominated for competition in the Thermo Fisher Scientific-Junior Innovators Challenge. Register online at: https://www.societyforscience.org/jic/for-nominees/ and use password of USMI02 |
|--------------------------|--|-----------------------------|--|
| Elena Srour              | Shapes Are Strong  |                             |  |
|                          | Talath Ansari  | Crescent Academ             | y International  |
| Place Code               | Organization Name  |                             | Organization Description   |
| 1 JIC                    | Thermo Fisher Scientific-Junior Inn                      | ovators Challenge           | Student is nominated for competition in the Thermo Fisher Scientific-Junior Innovators Challenge. Register online at: https://www.societyforscience.org/jic/for-nominees/ and use password of USMI02 |
| Elijah Egbert            | How Exercise Affects Anxiety ar                          | d Depression                |  |
|                          | Cynthia Schmitz  | St. Patrick Elemer          | ntary-Whitelake  |
| Place Code               | Organization Name  |                             | Organization Description   |
| 1 JIC                    | Thermo Fisher Scientific-Junior Inn                      | ovators Challenge           | Student is nominated for competition in the Thermo Fisher Scientific-Junior Innovators Challenge. Register online at: https://www.societyforscience.org/jic/for-nominees/ and use password of USMI02 |
| Emma Kato                | Effects of Biopolymers on Plana                          | ria Regeneration            |  |
|                          | David Allan  | MSEF-Saginaw Ar             | ts and Sciences  |
| Place Code               | Organization Name  |                             | Organization Description   |
| 5 STATE                  | MSEF   |                             | Selected for competition into the Michigan Science and Engineering Fair on March 15, 2023.   |
| Estrella Jimenez         | If it's Red, it's Lead! Dark Choco                       | olate vs. Milk Chocol       | ate  |
|                          | Dr. George Goff  | Harms Elementar             | y School   |
| Place Code               | Organization Name  |                             | Organization Description   |
| 1 EPA                    | <b>Environmental Protection Agency</b>                   |                             | Congratulatory Letter of encourgement  |
| 3EL SHPE                 | Society of Hispanic Professional En                      | gineers                     | Certificate of Recognition & small gift  |

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| 6 - 1:6 - 1 - | . N.L. | Title  | Calcard                 |  |
|---------------|--------|--|-------------------------|--|
| Certificate   | ename  | Teacher  | School                  |  |
| Ethan Dul     | hl     | Water Quality based on an U                                | rbanization Gradient ir | n the Rouge River  |
|               |        | Jennifer Gorsline  | Dearborn Center         | for Math, Science & Technology   |
| Place         | Code   | Organization Name  |                         | Organization Description   |
| 1             | AMS    | American Meteorological Societ                             | У                       | Certificate of outstanding achievement   |
| 1             | NOAA   | United States Department of Commerce Oceans and Atmosphere |                         | Certificate of Recognition   |
| 1             | SIWI   | Stockholm Junior Water Prize (S                            | tockholm)               | Regional Award and recommendation to compete nationally  |
| Evie Doyc     | on     | How Do Crystalline Substanc                                | es Affect the Melting R | ate of Ice?  |
|               |        | Cynthia Schmitz  | St. Patrick Elemen      | tary-Whitelake   |
| Place         | Code   | Organization Name  |                         | Organization Description   |
| 1             | JIC    | Thermo Fisher Scientific-Junior I                          | nnovators Challenge     | Student is nominated for competition in the Thermo Fisher Scientific-Junior Innovators Challenge. Register online at: https://www.societyforscience.org/jic/for-nominees/ and use password of USMI02 |
| Fatima Be     | egum   | How can food waste be used                                 | to make natural dyes?   |  |
|               |        | Anjana Kapoor  | Davison Elementa        | ry-Middle School   |
| Place         | Code   | Organization Name  |                         | Organization Description   |
| 1             | JIC    | Thermo Fisher Scientific-Junior I                          | nnovators Challenge     | Student is nominated for competition in the Thermo Fisher Scientific-Junior Innovators Challenge. Register online at: https://www.societyforscience.org/jic/for-nominees/ and use password of USMI02 |
| Fiona San     | nson   | Impacts of DGK Down-Regula                                 | ation on Longevity duri | ng Spaceflight   |
|               |        | Rebecca Brewer   | Troy High School        |  |
| Place         | Code   | Organization Name  |                         | Organization Description   |
| 1             | NASA   | NASA Earth System Science                                  |                         | Certificate of Recognition   |
| 1-ST          | USAF   | United States Air Force                                    |                         | Congratulatory Letter and certificate  |

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| CertificateName        | Title<br>Teacher School   |   |
|------------------------|---|---|
| Fuga Takahashi         | Machine Learning Prediction of Binding Af   | finity for In-Silico Drug Discovery   |
| -                      | James Didio Novi Sen  | nior High School  |
| Place Code             | Organization Name   | Organization Description  |
| HM ASA                 | American Statistical Association (ASA), Michig Chapters                                   | gan Certificate of Recognition  |
| 1 ISEF                 | ISEF  | SEFMD ISEF Finalist for 2022, May 8-13, 2022  |
| 2 STATE                | MSEF  | Second Place Award of \$100 Cash Award  |
| Genavieve Bylow        | Seeds Against Bacteria  |   |
|                        | Maureen Wickenheiser St. Patrio   | ck Elementary-Carleton, MI - 6-8  |
| Place Code             | Organization Name   | Organization Description  |
| 1 EPA                  | <b>Environmental Protection Agency</b>  | Congratulatory Letter of encourgement   |
| 1JR USNAVY             | United States Navy  | Letter of Congratulations, ONR Medallion, Naval Science Award Certificate             |
| Giovanni Torres        | Jumping for Geodes: Can you tell the Insid  | le From the Outside   |
|                        | William Tucker Holy Rec   | deemer Catholic Grade School  |
| Place Code             | Organization Name   | Organization Description  |
| 1 EPA                  | Environmental Protection Agency   | Congratulatory Letter of encourgement   |
| Grace Wang             | The effect of methotrexate on MNRR1 as s  | seen through cellular inflammation and  |
|                        |   |   |
|                        | Karen Lamb Detroit C  | Country Day Upper   |
| Place Code             | Karen Lamb Detroit C Organization Name  | Country Day Upper Organization Description  |
| Place Code<br>1 INVITR |   |   |
| 1 INVITR               | Organization Name   | Organization Description Certificate of Achievement                                   |
| 1 INVITR               | Organization Name Society for In Vitro Biology Selective Attention in Audio-Visual Naviga | Organization Description Certificate of Achievement                                   |
|                        | Organization Name Society for In Vitro Biology Selective Attention in Audio-Visual Naviga | Organization Description Certificate of Achievement tion through Sound Classification |

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| CertificateN | lame   | Title<br>Teacher                     | School                |  |
|--------------|--------|--------------------------------------|-----------------------|--|
| Hadi Beydo   | oun    | Quantum-based Hamiltonian Ca         | alculation for Comple | ex Molecules   |
|              |        | Jennifer Gorsline                    | Dearborn Center f     | or Math, Science & Technology  |
| Place        |        | Organization Name                    |                       | Organization Description   |
| 4            | STATE  | MSEF                                 |                       | Fourth Place Award of \$50 Cash Award  |
| Hadi Sweid   | lan    | Can you turn Milk into Plastic?      |                       |  |
|              |        | Rajaa Seblani                        | Star International    | Academy-Middle School  |
| Place        | Code   | Organization Name                    |                       | Organization Description   |
| 3JR          | ASMDET | ASM - Detroit Chapter                |                       | Certificate of accomplishment and complementary admission to/recognition at chapter dinner meeting.  |
| Hamna Ma     | lik    | Lets breakdown with pesticides       |                       |  |
|              |        | Talath Ansari                        | Crescent Academy      | / International  |
| Place        | Code   | Organization Name                    |                       | Organization Description   |
| 1            | EPA    | Environmental Protection Agency      |                       | Congratulatory Letter of encourgement  |
| 1            | JIC    | Thermo Fisher Scientific-Junior Inno | ovators Challenge     | Student is nominated for competition in the Thermo Fisher Scientific-Junior Innovators Challenge. Register online at: https://www.societyforscience.org/jic/for-nominees/ and use password of USMI02   |
| Harish Nara  | ayan   | Graphene Sand: Unlocking the p       | ootential of Metal Ai | r Batteries  |
|              |        | Nirmal Narayan                       | Home School 1-Ca      | inton  |
| Place        | Code   | Organization Name                    |                       | Organization Description   |
| 2            | EMA    | Environmental Management Assoc       | iation                | Second place scholarship award on behalf of the Environmental Management Association, certificate and an award of \$750. Invitation to the Environmental Achievement Awards event at the Detroit Yacht Club on May 18 to receive their award and discuss + display their projects to industry professionals. |
| 1            | LTU-WS | LTU Summer Workshop                  |                       | Participation in the LTU Summer Workshop program   |
| 5            | STATE  | MSEF                                 |                       | Selected for competition into the Michigan Science and Engineering Fair on March 15, 2023.   |

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| CertificateName   | Title<br>Teacher            | School                       |  |
|-------------------|-----------------------------|------------------------------|--|
| Heera Santhosh    | Assessing the Impact of     | Mechanical Stimulation vi    | a LEGO Robotics on Plants  |
|                   | Jackie Toepel               | International Aca            | ademy-East Campus  |
| Place Code        | Organization Name           |                              | Organization Description   |
| 5 STATE           | MSEF                        |                              | Selected for competition into the Michigan Science and Engineering Fair on March 15, 2023.   |
| Helsa Thomas      | The Effects of Curcuma      | longa, Melaleuca alternifo   | lia, and Zingiber officinale   |
|                   | Matthew Miller              | MSEF-Saginaw A               | arts and Sciences  |
| Place Code        | Organization Name           |                              | Organization Description   |
| 6 ASEIO           | American Society of Engine  | ers of Indian Origin         | Certificate, \$15 Gift card, Invitation to enter ASEI National YTE   |
| 5 STATE           | MSEF                        |                              | Selected for competition into the Michigan Science and Engineering Fair on March 15, 2023.   |
| Himani Yarlagadda | Understanding the Impa      | act of Tannic Acid on IgE Ar | ntibody Response to Nuts   |
|                   | Laura Luckins               | Detroit Country              | Day Upper  |
| Place Code        | Organization Name           |                              | Organization Description   |
| 5 STATE           | MSEF                        |                              | Selected for competition into the Michigan Science and Engineering Fair on March 15, 2023.   |
| 1SR USNAVY        | United States Navy          |                              | Letter of Congratulations, ONR Medallion, Naval Science Award Certificate, and \$50 gift card  |
| Isaac Britton     | The Greenhouse Effect       | on the Growth of Desert Pl   | lants  |
|                   | Latrisha Burrell            | Palmer Park Prep             | paratory Academy   |
| Place Code        | Organization Name           |                              | Organization Description   |
| 1 JIC             | Thermo Fisher Scientific-Ju | nior Innovators Challenge    | Student is nominated for competition in the Thermo Fisher Scientific-Junior Innovators Challenge. Register online at: https://www.societyforscience.org/jic/for-nominees/ and use password of USMI02 |
| Isabella Cook     | Art Education and Socia     | l-Emotional Learning         |  |
|                   | John Dougherty              | Detroit Country              | Day Upper  |
| Place Code        | Organization Name           | ·                            | Organization Description   |
|                   |                             |                              |  |

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| Teacher School  APA American Psychological Association Certificate of accomplishment  Selected for competition into the Michigan Science and March 15, 2023.  Isaias Orozco Keeping You in Suspens(ion) William Tucker Holy Redeemer Catholic Grade School Place Code Organization Name Organization Description  1 EPA Environmental Protection Agency Congratulatory Letter of encourgement  2JR SHPE Society of Hispanic Professional Engineers Certificate of Recognition & Small Gift  Ishrat Iqbal   Think Twice Before You Double Dip! Anjana Kapoor Davison Elementary-Middle School  Place Code Organization Name Organization Description  1 JIC Thermo Fisher Scientific-Junior Innovators Challenge Student is nominated for competition in the Thermo Filanovators Challenge. Register online at: https://www.societyforscience.org/jic/for-nominees/studential-planifer Gorsline Dearborn Center for Math, Science & Technology | Engineering Fair on |
|---|---------------------|
| Selected for competition into the Michigan Science and March 15, 2023.  Isaias Orozco Keeping You in Suspens(ion) William Tucker Holy Redeemer Catholic Grade School  Place Code Organization Name Organization Description  1 EPA Environmental Protection Agency Congratulatory Letter of encourgement  2JR SHPE Society of Hispanic Professional Engineers Certificate of Recognition & Small Gift  Ishrat Iqbal   Think Twice Before You Double Dip! Anjana Kapoor Davison Elementary-Middle School  Place Code Organization Name Organization Description  1 JIC Thermo Fisher Scientific-Junior Innovators Challenge Student is nominated for competition in the Thermo Fishers://www.societyforscience.org/jic/for-nominees/substitutes/   | Engineering Fair on |
| Isaias Orozco  Keeping You in Suspens(ion)  William Tucker Holy Redeemer Catholic Grade School  Place Code Organization Name Organization Description  1 EPA Environmental Protection Agency Congratulatory Letter of encourgement  2JR SHPE Society of Hispanic Professional Engineers Certificate of Recognition & Small Gift  Ishrat Iqbal   Think Twice Before You Double Dip!  Anjana Kapoor Davison Elementary-Middle School  Place Code Organization Name Organization Description  1 JIC Thermo Fisher Scientific-Junior Innovators Challenge Student is nominated for competition in the Thermo Filnnovators Challenge. Register online at: https://www.societyforscience.org/jic/for-nominees/JUSMI02  Jad Elhinnawi Sound in the Hydroponic field  | Engineering Fair on |
| William Tucker Holy Redeemer Catholic Grade School  Place Code Organization Name Organization Description  1 EPA Environmental Protection Agency Congratulatory Letter of encourgement  2JR SHPE Society of Hispanic Professional Engineers Certificate of Recognition & Small Gift  Ishrat Iqbal   Think Twice Before You Double Dip!  Anjana Kapoor Davison Elementary-Middle School  Place Code Organization Name Organization Description  1 JIC Thermo Fisher Scientific-Junior Innovators Challenge Student is nominated for competition in the Thermo Filmovators Challenge. Register online at: https://www.societyforscience.org/jic/for-nominees/suSMI02  Jad Elhinnawi Sound in the Hydroponic field   |                     |
| Place Code Organization Name Organization Description  1 EPA Environmental Protection Agency Congratulatory Letter of encourgement  2JR SHPE Society of Hispanic Professional Engineers Certificate of Recognition & Small Gift  Ishrat Iqbal   Think Twice Before You Double Dip! Anjana Kapoor Davison Elementary-Middle School  Place Code Organization Name Organization Description  1 JIC Thermo Fisher Scientific-Junior Innovators Challenge Student is nominated for competition in the Thermo Filmovators Challenge. Register online at: https://www.societyforscience.org/jic/for-nominees/USMI02  Jad Elhinnawi Sound in the Hydroponic field   |                     |
| 1 EPA Environmental Protection Agency Congratulatory Letter of encourgement  2JR SHPE Society of Hispanic Professional Engineers Certificate of Recognition & Small Gift  Ishrat Iqbal   Think Twice Before You Double Dip!  Anjana Kapoor Davison Elementary-Middle School  Place Code Organization Name Organization Description  1 JIC Thermo Fisher Scientific-Junior Innovators Challenge Student is nominated for competition in the Thermo Filmovators Challenge. Register online at: https://www.societyforscience.org/jic/for-nominees/JUSMI02  Jad Elhinnawi Sound in the Hydroponic field  |                     |
| 2JR SHPE Society of Hispanic Professional Engineers Certificate of Recognition & Small Gift  Shrat Iqbal   Think Twice Before You Double Dip!  Anjana Kapoor Davison Elementary-Middle School  Place Code Organization Name Organization Description  1 JIC Thermo Fisher Scientific-Junior Innovators Challenge Student is nominated for competition in the Thermo Filmovators Challenge. Register online at:  https://www.societyforscience.org/jic/for-nominees/USMI02  Jad Elhinnawi Sound in the Hydroponic field  |                     |
| Ishrat Iqbal   Think Twice Before You Double Dip!  Anjana Kapoor Davison Elementary-Middle School  Place Code Organization Name Organization Description  1 JIC Thermo Fisher Scientific-Junior Innovators Challenge Student is nominated for competition in the Thermo Fisher Scientific-Junior Innovators Challenge. Register online at: https://www.societyforscience.org/jic/for-nominees/USMI02  Jad Elhinnawi Sound in the Hydroponic field   |                     |
| Anjana Kapoor Davison Elementary-Middle School  Place Code 1 JIC Thermo Fisher Scientific-Junior Innovators Challenge Student is nominated for competition in the Thermo Fisher Scientific-Junior Innovators Challenge Register online at: https://www.societyforscience.org/jic/for-nominees/USMI02  Jad Elhinnawi Sound in the Hydroponic field   |                     |
| Place Code 1 JIC Thermo Fisher Scientific-Junior Innovators Challenge Student is nominated for competition in the Thermo Fisher Scientific-Junior Innovators Challenge Innovators Challenge. Register online at: https://www.societyforscience.org/jic/for-nominees/USMI02  Jad Elhinnawi Sound in the Hydroponic field   |                     |
| 1 JIC Thermo Fisher Scientific-Junior Innovators Challenge Student is nominated for competition in the Thermo Fisher Scientific-Junior Innovators Challenge Student is nominated for competition in the Thermo Fisher Scientific-Junior Innovators Challenge Register online at: https://www.societyforscience.org/jic/for-nominees/USMI02  Jad Elhinnawi Sound in the Hydroponic field   |                     |
| Innovators Challenge. Register online at: https://www.societyforscience.org/jic/for-nominees/ USMI02  Jad Elhinnawi Sound in the Hydroponic field   |                     |
| , '   |                     |
| Jennifer Gorsline Dearborn Center for Math, Science & Technology  |                     |
|   |                     |
| Place Code Organization Name Organization Description   |                     |
| 5 STATE MSEF Selected for competition into the Michigan Science and March 15, 2023.   | Engineering Fair on |
| Jaden Woods Plant Life  |                     |
| Lashon Clay Sampson-Webber Leadership Academy-Middle School   |                     |
| Place Code Organization Name Organization Description   |                     |
| 1 EPA Environmental Protection Agency Congratulatory Letter of encourgement   |                     |

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| CertificateName   | Title<br>Teacher                    | School                |  |
|---|-------------------------------------|-----------------------|--|
| Jadiei Lopez with Julian<br>Hurtado and Jeriel Cre<br>Gustavo Sanchez, Carlo<br>Reyes | spo,                                |                       |  |
|   | Dr. George Goff                     | Harms Elementary      | y School   |
| Place Code  | Organization Name                   |                       | Organization Description   |
| 1 EPA   | Environmental Protection Agency     |                       | Congratulatory Letter of encourgement  |
| Janet Torres  | How Many Seeds do Different 1       | Гуреs of Fruit Produc | re   |
|   | William Tucker                      | Holy Redeemer Ca      | atholic Grade School   |
| Place Code  | Organization Name                   |                       | Organization Description   |
| 1 EPA   | Environmental Protection Agency     |                       | Congratulatory Letter of encourgement  |
| Jaylon Johnson  | Plants in the Market Place!         |                       |  |
|   | Dr. George Goff                     | Harms Elementary      | y School   |
| Place Code  | Organization Name                   |                       | Organization Description   |
| 1 EPA   | Environmental Protection Agency     |                       | Congratulatory Letter of encourgement  |
| Jeeva Maridass  | Nose Cone Optimization for Hig      | gher Rocket Apogee:   | Simulation and Analysis  |
|   | Jackie Toepel                       | International Acad    | demy-East Campus   |
| Place Code  | Organization Name                   |                       | Organization Description   |
| 1SR USNAVY  | United States Navy                  |                       | Letter of Congratulations, ONR Medallion, Naval Science Award Certificate, and \$50 gift card  |
| Jenna Gabr  | Which city in Metro Detroit has     | the safest drinking v | water?   |
|   | Zehra Beg                           | Huda Upper Schoo      | la   |
| Place Code  | Organization Name                   |                       | Organization Description   |
| 1 JIC   | Thermo Fisher Scientific-Junior Inn | ovators Challenge     | Student is nominated for competition in the Thermo Fisher Scientific-Junior Innovators Challenge. Register online at: https://www.societyforscience.org/jic/for-nominees/ and use password of USMI02 |

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| CertificateName                 | Title<br>Teacher                       | School   |
|---------------------------------|--|--|
| Jennyfer Paz                    | How to grow the best and largest       | crystals   |
| •                               |  | Holy Redeemer Catholic Grade School  |
| Place Code                      | Organization Name                      | Organization Description   |
| 1 EPA                           | Environmental Protection Agency        | Congratulatory Letter of encourgement  |
| Jessica Reinhart with<br>Gareau | Molly Fun with Fungicide               |  |
|                                 | Jamie Hilliard                         | Macomb Mathematics Science Technology Center   |
| Place Code                      | Organization Name                      | Organization Description   |
| 1 EPA                           | Environmental Protection Agency        | Congratulatory Letter of encourgement  |
| John Fontes lii                 | Saltwater Pool vs Chlorine Pool wl     | nich one's faster to swim?   |
|                                 | Cynthia Schmitz                        | St. Patrick Elementary-Whitelake   |
| Place Code                      | Organization Name                      | Organization Description   |
| 1 JIC                           | Thermo Fisher Scientific-Junior Innov  |  |
|                                 |  | Innovators Challenge. Register online at:  |
|                                 |  | https://www.societyforscience.org/jic/for-nominees/ and use password of USMI02             |
| Jonathan Calderon               | β-Catenin Ability to Form Bio          | omolecular Condensates Correlates with Function  |
|                                 | Stephen Lewis                          | Battle Creek Area Math & Science Center  |
| Place Code                      | Organization Name                      | Organization Description   |
| 2SR SHPE                        | Society of Hispanic Professional Engir | eers Certificate of Recognition & Small Gift   |
| 5 STATE                         | MSEF                                   | Selected for competition into the Michigan Science and Engineering Fair on March 15, 2023. |
| Jose Orozco                     | What is Buoyancy ?                     |  |
|                                 | William Tucker                         | Holy Redeemer Catholic Grade School  |
| Place Code                      | Organization Name                      | Organization Description   |
| 1 EPA                           | Environmental Protection Agency        | Congratulatory Letter of encourgement  |

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| CertificateNar   | me   | Title<br>Teacher  | School  |   |
|--|--|---|---|---|
| Juan Espinoza  | a  | Fruits and Seeds  |   |   |
|  |  | William Tucker  | Holy Redeemer Ca  | atholic Grade School  |
| Place Co   | ode  | Organization Name   |   | Organization Description  |
| 1 E  | EPA  | Environmental Protection Agency   |   | Congratulatory Letter of encourgement   |
| Juan Zarate  |  | Make the wind work for you!   |   |   |
|  |  | William Tucker  | Holy Redeemer Ca  | atholic Grade School  |
| Place Co   | ode  | Organization Name   |   | Organization Description  |
| 1 E  | EPA  | Environmental Protection Agency   |   | Congratulatory Letter of encourgement   |
| 1 JI   | IIC  | Thermo Fisher Scientific-Junior Inno  | ovators Challenge   | Student is nominated for competition in the Thermo Fisher Scientific-Junior Innovators Challenge. Register online at: https://www.societyforscience.org/jic/for-nominees/ and use password of   |
|  |  |   |   | USMI02  |
| Judy Bai with  | n Daniel Zhou  | Characterizing Racial Disparity in  | n Cancers by Predict  |   |
| Judy Bai with  | n Daniel Zhou  | Characterizing Racial Disparity in Julie Smith  | n Cancers by Predict<br>Greenhills  |   |
| Judy Bai with  Place Co  |  |   | •   |   |
|  |  | Julie Smith   | Greenhills  | ting Candidate Biomarkers   |
| Place Co<br>1 U<br>Julian Watsor                                     | ode<br>USAID<br>on with Candid                               | Julie Smith Organization Name US Agency for International Develo  | Greenhills  | Candidate Biomarkers  Organization Description  Science Champion Award Certificate  |
| Place Co<br>1 U<br>Julian Watsor                                     | ode<br>USAID<br>on with Candid                               | Julie Smith Organization Name US Agency for International Develo  | Greenhills opment oducts Contaminant  | Candidate Biomarkers  Organization Description  Science Champion Award Certificate  |
| Place Co   | ode<br>USAID<br>on with Candi<br>toine Wright                | Julie Smith Organization Name US Agency for International Develo The Effect of Watershed By-Pro   | Greenhills opment oducts Contaminant  | Organization Description Science Champion Award Certificate s on Freshwater Aquatic Plants  |
| Place Co  1 U  Julian Watsor Gray and Ant                            | ode<br>USAID<br>on with Candi<br>toine Wright                | Julie Smith Organization Name US Agency for International Develo The Effect of Watershed By-Pro Devette Brown   | Greenhills  ppment  oducts Contaminants  Bunche Preparato                   | Organization Description Science Champion Award Certificate s on Freshwater Aquatic Plants Ory Academy-MiddleSchool   |
| Place Co  1 U  Julian Watsor Gray and Ant                            | ode<br>USAID<br>on with Candid<br>toine Wright<br>ode<br>IIC | Julie Smith Organization Name US Agency for International Develo  The Effect of Watershed By-Pro Devette Brown Organization Name  | Greenhills  opment  oducts Contaminant  Bunche Preparato  ovators Challenge | Organization Description Science Champion Award Certificate s on Freshwater Aquatic Plants Ory Academy-MiddleSchool Organization Description Student is nominated for competition in the Thermo Fisher Scientific-Junior Innovators Challenge. Register online at: https://www.societyforscience.org/jic/for-nominees/ and use password of USMI02 |
| Place Co<br>1 U<br>Julian Watsor<br>Gray and Ant<br>Place Co<br>1 JI | ode<br>USAID<br>on with Candid<br>toine Wright<br>ode<br>IIC | Julie Smith Organization Name US Agency for International Develo  The Effect of Watershed By-Pro Devette Brown Organization Name Thermo Fisher Scientific-Junior Inno                                 | Greenhills  opment  oducts Contaminant  Bunche Preparato  ovators Challenge | Organization Description Science Champion Award Certificate s on Freshwater Aquatic Plants Ory Academy-MiddleSchool Organization Description Student is nominated for competition in the Thermo Fisher Scientific-Junior Innovators Challenge. Register online at: https://www.societyforscience.org/jic/for-nominees/ and use password of USMI02 |
| Place Co<br>1 U<br>Julian Watsor<br>Gray and Ant<br>Place Co<br>1 JI | ode<br>USAID<br>on with Candid<br>toine Wright<br>ode<br>IIC | Julie Smith Organization Name US Agency for International Develor The Effect of Watershed By-Pro Devette Brown Organization Name Thermo Fisher Scientific-Junior Inno PlantDoc: A Novel Plant Disease | Greenhills  ppment  ducts Contaminant  Bunche Preparato  ovators Challenge  | Organization Description Science Champion Award Certificate s on Freshwater Aquatic Plants Ory Academy-MiddleSchool Organization Description Student is nominated for competition in the Thermo Fisher Scientific-Junior Innovators Challenge. Register online at: https://www.societyforscience.org/jic/for-nominees/ and use password of USMI02 |

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| ertificateNa             | ame          | Title<br>Teacher   | School                |  |
|--------------------------|--------------|--|-----------------------|--|
| Keegan Laco              |              | Does the Shape of Ice Affect th                                  |                       | olts?  |
| veegan Lacc              | J            | Cynthia Schmitz  | St. Patrick Elemen    |  |
| Place C                  | `ode         | Organization Name  | St. Fatrick Lienien   | Organization Description   |
|                          | ASHRAE       | Amercian Society of Heating, Refri<br>Conditioning Engineers     | gerating and Air      | Book and Certificate   |
| 1                        | JIC          | Thermo Fisher Scientific-Junior Inr                              | novators Challenge    | Student is nominated for competition in the Thermo Fisher Scientific-Junior Innovators Challenge. Register online at: https://www.societyforscience.org/jic/for-nominees/ and use password of USMI02 |
| Kenneth Bra              | axton        | Measuring the Effects of Clean                                   | ing Supplies on Algal | Populations  |
|                          |              | Hallie. Jones  | East English Villag   | e Preparatory Academy  |
| Place C                  | Code         | Organization Name  |                       | Organization Description   |
| 1                        | AMS          | American Meteorological Society                                  |                       | Certificate of outstanding achievement   |
| Kerrington I             | Brown        | What Substance Makes Ice Me                                      | It Fastest?           |  |
|                          |              | Carol Smuk   | Academy of the A      | mericas-Middle School  |
| Place C                  | Code         | Organization Name  |                       | Organization Description   |
| 1                        | JIC          | Thermo Fisher Scientific-Junior Inr                              | novators Challenge    | Student is nominated for competition in the Thermo Fisher Scientific-Junio Innovators Challenge. Register online at: https://www.societyforscience.org/jic/for-nominees/ and use password of USMI02  |
|                          |              |  | 7                     |  |
| Khadija Mar<br>Alghazali | rey with Waf | a Electrochemical Water Splitting                                | 5                     |  |
| -                        | ey with Waf  | a Electrochemical Water Splitting  Jason Bodson                  | Oakland Internati     | onal Academy HS  |
| -                        |              |  | -                     | onal Academy HS Organization Description   |
| Alghazali<br>Place C     |              | Jason Bodson   | Oakland Internation   |  |
| Alghazali<br>Place C     | Code<br>SIWI | Jason Bodson<br>Organization Name                                | Oakland Internation   | Organization Description   |
| Alghazali<br>Place C     | Code<br>SIWI | Jason Bodson Organization Name Stockholm Junior Water Prize (Sto | Oakland Internation   | Organization Description   |

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|                     |                | Title  |                      |  |
|---------------------|----------------|--|----------------------|--|
| ertificate          | Name           | Teacher  | School               |  |
| 1                   | JIC            | Thermo Fisher Scientific-Junior Innov          | ators Challenge      | Student is nominated for competition in the Thermo Fisher Scientific-Junior Innovators Challenge. Register online at: https://www.societyforscience.org/jic/for-nominees/ and use password of USMI02 |
| 1J                  | SIGXI          | Sigma Xi-Univ of Mich Chapter                  |                      | Certificate of award and cash award in the Junior Division   |
| _aura Liu           |                | Effects of ergothioneine in regula             | ting downstream g    | ene expression   |
|                     |                | Eric Lohr                                      | Rochester Adams H    | High School  |
| Place               | Code           | Organization Name                              |                      | Organization Description   |
| 1-ST                | APA            | American Psychological Association             |                      | Certificate of accomplishment  |
| ₋auren Bla<br>Aloia | ase with Faith | The effect of knob spacing on the              | rolling resistance c | of a tire  |
|                     |                | Jamie Hilliard                                 | Macomb Mathema       | atics Science Technology Center  |
| Place               | Code           | Organization Name                              |                      | Organization Description   |
| 2                   | ASA            | American Statistical Association (ASA Chapters | A), Michigan         | \$50 Award of Merit  |
| 5                   | STATE          | MSEF   |                      | Selected for competition into the Michigan Science and Engineering Fair on March 15, 2023.   |
| _auren Kir          | m              | Climate Change: the Effect of Incr             | reasing Temperatur   | e on Caenorhabditis elegans  |
|                     |                | John Dougherty                                 | Detroit Country Da   | y Upper  |
| Place               | Code           | Organization Name                              |                      | Organization Description   |
| 1                   | AMS            | American Meteorological Society                |                      | Certificate of outstanding achievement   |
| _                   |                | MSEF   |                      | Selected for competition into the Michigan Science and Engineering Fair on   |
| 5                   | STATE          | WISEF  |                      | March 15, 2023.  |
| 5<br>Layan Rah      |                | Pearly Eggs                                    |                      | ·  |

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Organization Description

Place Code

Organization Name

| Certificate                          | Name                                | Teacher  | School   |  |
|--------------------------------------|-------------------------------------|--|--|--|
| 1                                    | JIC                                 | Thermo Fisher Scientific-Junior Inr  | novators Challenge                                 | Student is nominated for competition in the Thermo Fisher Scientific-Junior Innovators Challenge. Register online at: https://www.societyforscience.org/jic/for-nominees/ and use password of USMI02   |
| Leonel Fr                            | anco Hermosil                       | lo What surfaces cannot pop a bu   | ıbble?   |  |
|                                      |                                     | William Tucker   | Holy Redeemer C                                    | atholic Grade School   |
| Place                                | Code                                | Organization Name  |  | Organization Description   |
| 1                                    | EPA                                 | <b>Environmental Protection Agency</b>   |  | Congratulatory Letter of encourgement  |
| 1JR                                  | GLCHPS                              | Great Lakes Chapter Health Physic  | s Society  | JR 1st Place Award recognizing outstanding contributions by students in grades 6–8 to the understanding of the applications of radiation and its impact on the environment and health.   |
| 1                                    | JIC                                 | Thermo Fisher Scientific-Junior Inr  | novators Challenge                                 | Student is nominated for competition in the Thermo Fisher Scientific-Junior Innovators Challenge. Register online at: https://www.societyforscience.org/jic/for-nominees/ and use password of USMI02   |
|                                      |                                     |  |  |  |
| Londynn                              | Stroman                             | Processed or Natural?  |  |  |
| Londynn                              | Stroman                             | Processed or Natural? Suzanne Thebert  | Michigan Math ar                                   | nd Science Academy-MS  |
| ·                                    | Stroman                             |  | Michigan Math ar                                   | nd Science Academy-MS Organization Description   |
| ·                                    |                                     | Suzanne Thebert  | Michigan Math ai                                   | ·  |
| Place                                | Code<br>EPA                         | Suzanne Thebert<br>Organization Name   | ·  | Organization Description   |
| Place<br>1                           | Code<br>EPA                         | Suzanne Thebert Organization Name Environmental Protection Agency  | ·  | Organization Description Congratulatory Letter of encourgement   |
| Place<br>1<br>Lucas We               | Code<br>EPA                         | Suzanne Thebert Organization Name Environmental Protection Agency 3D Printing Different Shovel De  | esigns   | Organization Description Congratulatory Letter of encourgement   |
| Place<br>1<br>Lucas We               | Code<br>EPA<br>eaver                | Suzanne Thebert Organization Name Environmental Protection Agency  3D Printing Different Shovel De Cynthia Schmitz   | esigns<br>St. Patrick Elemer                       | Organization Description Congratulatory Letter of encourgement  ntary-Whitelake Organization Description Student is nominated for competition in the Thermo Fisher Scientific-Junion Innovators Challenge. Register online at:   |
| Place 1 Lucas We                     | Code<br>EPA<br>eaver<br>Code<br>JIC | Suzanne Thebert Organization Name Environmental Protection Agency  3D Printing Different Shovel De Cynthia Schmitz Organization Name                                     | esigns<br>St. Patrick Elemer<br>novators Challenge | Organization Description Congratulatory Letter of encourgement  Intary-Whitelake Organization Description Student is nominated for competition in the Thermo Fisher Scientific-Junior Innovators Challenge. Register online at: https://www.societyforscience.org/jic/for-nominees/ and use password of        |
| Place<br>1<br>Lucas We<br>Place<br>1 | Code<br>EPA<br>eaver<br>Code<br>JIC | Suzanne Thebert Organization Name Environmental Protection Agency  3D Printing Different Shovel De Cynthia Schmitz Organization Name Thermo Fisher Scientific-Junior Inc | esigns<br>St. Patrick Elemer<br>novators Challenge | Organization Description Congratulatory Letter of encourgement  Intary-Whitelake Organization Description Student is nominated for competition in the Thermo Fisher Scientific-Junior Innovators Challenge. Register online at: https://www.societyforscience.org/jic/for-nominees/ and use password of USMI02 |

Title

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| Certificatel<br>1-JR | Name<br>NSBE  | Title Teacher National Society of Black Engineers: Professionals | School<br>Detroit  | Junior Division: Certificate of recognition, \$100 stipend and NSBE Jr. Membership   |
|----------------------|---------------|--|--------------------|--|
| Luzmaria F           | Rios          | Cooking Pasta  |                    |  |
|                      |               | William Tucker   | Holy Redeemer Ca   | atholic Grade School   |
| Place                | Code          | Organization Name  |                    | Organization Description   |
| 1                    | EPA           | Environmental Protection Agency                                  |                    | Congratulatory Letter of encourgement  |
| Madison R            | Richards      | May the Force be With You?                                       |                    |  |
|                      |               | Tracy King   | Pasteur Elementa   | ry   |
| Place                | Code          | Organization Name  |                    | Organization Description   |
| 1                    | JIC           | Thermo Fisher Scientific-Junior Inno                             | vators Challenge   | Student is nominated for competition in the Thermo Fisher Scientific-Junior Innovators Challenge. Register online at: https://www.societyforscience.org/jic/for-nominees/ and use password of USMI02 |
| 1JR                  | USAF          | United States Air Force  |                    | Congratulatory letter and certificate  |
| Mahd Ali             |               | Public vs Private pH of pools                                    |                    |  |
|                      |               | Talath Ansari  | Crescent Academy   | y International  |
| Place                | Code          | Organization Name  |                    | Organization Description   |
| 1                    | EPA           | Environmental Protection Agency                                  |                    | Congratulatory Letter of encourgement  |
| -                    | blo with Alis | hba A Comparison of Mineral Sunscr                               | een Versus Chemica | al Sunscreen on Plant Growth   |
| Qureshi              |               |  |                    |  |
| Qureshi              |               | Marc Fazio   | Detroit Country Da | ay Upper   |
| Qureshi<br>Place     | Code          | Marc Fazio Organization Name                                     | Detroit Country D  | ay Upper Organization Description  |
|                      | Code<br>EPA   |  | Detroit Country D  |  |
| Place                |               | Organization Name  | Detroit Country D  | Organization Description   |
| Place<br>1           | EPA<br>STATE  | Organization Name<br>Environmental Protection Agency             | Detroit Country D  | Organization Description Congratulatory Letter of encourgement Selected for competition into the Michigan Science and Engineering Fair on  |
| Place<br>1<br>5      | EPA<br>STATE  | Organization Name Environmental Protection Agency MSEF           |                    | Organization Description Congratulatory Letter of encourgement Selected for competition into the Michigan Science and Engineering Fair on  |

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|  | Title                   |                                    |  |  |
|--|-------------------------|------------------------------------|--|--|
| CertificateName  | e Teacher               | School                             |  |  |
| 1 EP/  | A Environmental Prote   | ection Agency                      | Congratulatory Letter of encourgement  |  |
| 1 JIC  | Thermo Fisher Scier     | ntific-Junior Innovators Challenge | Student is nominated for competition in the Thermo Fisher Scientific-Junior Innovators Challenge. Register online at: https://www.societyforscience.org/jic/for-nominees/ and use password of USMI02 |  |
| Mariam Zargeli<br>Yasmina Jarkas                             | _                       | wer Wirelessly                     |  |  |
|  | Rajaa Seblani           | Star International                 | Academy-Middle School  |  |
| Place Code   | e Organization Name     |                                    | Organization Description   |  |
| 1JR US   | AF United States Air Fo | rce                                | Congratulatory letter and certificate  |  |
| Mariana Villa Araiza Build a Wind Turbine To Generate Energy |                         |                                    |  |  |
|  | William Tucker          |                                    | atholic Grade School   |  |
| Place Code   |                         | moly nedectifier of                | Organization Description   |  |
| 1 EP/  | 9                       | ection Agency                      | Congratulatory Letter of encourgement  |  |
| 1 JIC  | Thermo Fisher Scier     | ntific-Junior Innovators Challenge | Student is nominated for competition in the Thermo Fisher Scientific-Junior Innovators Challenge. Register online at: https://www.societyforscience.org/jic/for-nominees/ and use password of USMI02 |  |
| Mariel Botello   | Greening the Ear        | rth                                |  |  |
|  | William Tucker          | Holy Redeemer Ca                   | atholic Grade School   |  |
| Place Code   | e Organization Name     |                                    | Organization Description   |  |
| 1JR US   | NAVY United States Navy |                                    | Letter of Congratulations, ONR Medallion, Naval Science Award Certificate  |  |
| Maryam Ahme  | d Spill No More         |                                    |  |  |
| ,  | Wajida Taj              | Tawheed Center S                   | School   |  |
| Place Code   |                         |                                    | Organization Description   |  |
| 1 JIC  | 9                       | ntific-Junior Innovators Challenge | Student is nominated for competition in the Thermo Fisher Scientific-Junior Innovators Challenge. Register online at: https://www.societyforscience.org/jic/for-nominees/ and use password of USMI02 |  |

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| Certificate<br>1JR  | Name<br>USNAVY                   | Title<br>Teacher<br>United States Navy         | School              | Letter of Congratulations, ONR Medallion, Naval Science Award Certificate  |  |  |
|---|----------------------------------|--|---------------------|--|--|--|
| Maryam (  | Gharabli                         | Surface tension on a penny                     |                     |  |  |  |
|   |                                  | Wajida Taj                                     | Tawheed Center So   | chool  |  |  |
| Place   | Code                             | Organization Name                              |                     | Organization Description   |  |  |
| 1   | JIC                              | Thermo Fisher Scientific-Junior Inno           | vators Challenge    | Student is nominated for competition in the Thermo Fisher Scientific-Junior Innovators Challenge. Register online at: https://www.societyforscience.org/jic/for-nominees/ and use password of USMI02 |  |  |
| Maryam l  | Maryam Uzhunnan Producing Biogas |  |                     |  |  |  |
|   |                                  | Talath Ansari                                  | Crescent Academy    | International  |  |  |
| Place   | Code                             | Organization Name                              |                     | Organization Description   |  |  |
| 1   | EPA                              | Environmental Protection Agency                |                     | Congratulatory Letter of encourgement  |  |  |
| Matthew   | Douglas                          | It's Launch Time<br>Pamela Clark               | Oakland Christian S | School-MS  |  |  |
| Place   | Code                             | Organization Name                              |                     | Organization Description   |  |  |
| 1JR   | SPACEX                           | SpaceX   |                     | Awarded to a high quality project with application to SpaceX or aerospace more generally. Student demonstrates enthusiasm for the subject.   |  |  |
| Matthew Nanez What Makes Ice Melt Fastest   |                                  |  |                     |  |  |  |
|   |                                  | William Tucker                                 | Holy Redeemer Car   | tholic Grade School  |  |  |
| Place   | Code                             | Organization Name                              |                     | Organization Description   |  |  |
| 1   | EPA                              | Environmental Protection Agency                |                     | Congratulatory Letter of encourgement  |  |  |
| Max Xiao with Om Joshi SECRNN: Convolutional recurrent network for spatial audio event recognition and Manav Khosla |                                  |  |                     |  |  |  |
|   |                                  | Kristy Hessler                                 | International Acad  | emy  |  |  |
| Place   | Code                             | Organization Name                              |                     | Organization Description   |  |  |
| НМ  | ASA                              | American Statistical Association (AS. Chapters | A), Michigan        | Certificate of Recognition   |  |  |
| 3   | STATE                            | MSEF   |                     | Third Place Award of \$75 Cash Award   |  |  |
|   |                                  |  |                     |  |  |  |

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| Certificatel | Namo         | Title<br>Teacher                    | School                    |  |
|--------------|--------------|-------------------------------------|---------------------------|--|
| 1            | USAID        | US Agency for International Deve    |                           | Science Champion Award Certificate   |
| Maya Ham     | nmoud with L | ara Gene Hunting: Decoding the C    | Origins of Autism         |  |
| панниойс     | ı            | Karen Lamb                          | Detroit Country D         | av Upper   |
| Place        | Code         | Organization Name                   | 2 0 11 0 11 0 0 0 11 11 1 | Organization Description   |
| 1            | APA          | American Psychological Association  | on                        | Certificate of accomplishment  |
| 1            | USAF         | United States Air Force             |                           | Congratulatory Letter and certificate  |
| Merisa Gr    | ebovic       | The Future of Fashion: Enviror      | nmental and Ethical Su    | ustainability For Our World  |
|              |              | David Egan                          | Larson Middle Sch         | nool   |
| Place        | Code         | Organization Name                   |                           | Organization Description   |
| 2-JR         | AIRWAS       | Air Waste Management Associati      | on                        | Certificate and \$150 Second place award   |
| 1            | EPA          | Environmental Protection Agency     | ,                         | Congratulatory Letter of encourgement  |
| 1            | JIC          | Thermo Fisher Scientific-Junior In  | novators Challenge        | Student is nominated for competition in the Thermo Fisher Scientific-Junior Innovators Challenge. Register online at: https://www.societyforscience.org/jic/for-nominees/ and use password of USMI02 |
| 1JR          | USNAVY       | United States Navy                  |                           | Letter of Congratulations, ONR Medallion, Naval Science Award Certificate  |
| Michelle F   | lua          | 3D Simulation and Optimization      | on Algorithms of Trans    | scranial Focused Ultrasound  |
|              |              | Stephanie Kokoszka                  | Cranbrook Kingsw          | vood Upper School  |
| Place        | Code         | Organization Name                   |                           | Organization Description   |
| НМ           | ASA          | American Statistical Association (A | ASA), Michigan            | Certificate of Recognition   |
| 1            | BATTLE       | James T Battle Memorial Award       |                           | Special certificate and cash award of \$250 from the James T Battle Scholarship Fund   |
| 1-ST         | ISEF         | ISEF                                |                           | MSEF ISEF Finalist for 2022, May 8-13, 2022  |
| 0            | STATE        | MSEF                                |                           | Grand Award - MSEF Student is invited to participate in the International Science & Engineering Fair, plus \$250 Cash Award  |

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| Certificate<br>1 | Name<br>WEIZ  | Title Teacher School American Committee for the Weizmann Institute Science | e of All expense trip to attend the Weizmann Institute of Science in Rehovot, Israel from July 4-27, 2023  |
|------------------|---------------|--|--|
| Miguel Fr        | anco Hermosil | lo Electris Play-Dough Project   |  |
|                  |               | William Tucker Holy Redee  | mer Catholic Grade School  |
| Place            | Code          | Organization Name  | Organization Description   |
| 1                | EPA           | Environmental Protection Agency  | Congratulatory Letter of encourgement  |
| Mikul Sara       | avanan        | Low-Cost 6-Axis Robot Arm with a Novel Dyn                                 | amic Soft Gripper  |
|                  |               | Stephanie Kokoszka Cranbrook   | Kingswood Upper School   |
| Place            | Code          | Organization Name  | Organization Description   |
| 2                | ASEIO         | American Society of Engineers of Indian Origin                             | Certificate, \$25 Gift card, Invitation to enter ASEI National YTE   |
| 1                | IEEE          | IEEE Southeastern Michigan Section   | Frameable Certificate, \$100 cash award  |
| 5                | STATE         | MSEF   | Selected for competition into the Michigan Science and Engineering Fair on March 15, 2023.   |
| 1                | USMA          | US Metric Association Award  | Certificate  |
| Miles Hall       |               | Does Activated Carbon Purify & Neutralize Ac                               | cidic & Basic Water-Based Solutions  |
|                  |               | Cynthia Schmitz St. Patrick E  | Elementary-Whitelake   |
| Place            | Code          | Organization Name  | Organization Description   |
| 1                | JIC           | Thermo Fisher Scientific-Junior Innovators Challe                          | Student is nominated for competition in the Thermo Fisher Scientific-Junior Innovators Challenge. Register online at: https://www.societyforscience.org/jic/for-nominees/ and use password of USMI02 |
| Miriam Ha        | addad         | Plant Probiotics: A New Paradigm for Plant G                               | rowth?   |
|                  |               | Matthew Miller MSEF-Sagin  | naw Arts and Sciences  |
| Place            | Code          | Organization Name  | Organization Description   |
| НМ               | ASA           | American Statistical Association (ASA), Michigan Chapters                  | Certificate of Recognition   |
| 5                | STATE         | MSEF   | Selected for competition into the Michigan Science and Engineering Fair on March 15, 2023.   |

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| Certificatel | Name    | Title<br>Teacher                             | School                 |  |
|--------------|---------|--|------------------------|--|
| Miryam El    | -saghir | The Direct Correlation Betwe                 | een Socioeconomics an  | d PFAS Contamination Levels  |
|              |         | Jennifer Gorsline                            | Dearborn Center f      | for Math, Science & Technology   |
| Place        | Code    | Organization Name                            |                        | Organization Description   |
| 1            | AWG     | Association of Women GeoScien                | ntists                 | Awards Certificate   |
| 1-ST         | SIWI    | Stockholm Junior Water Prize (S              | tockholm)              | Regional Award and recommendation to compete nationally  |
| Mohamad      | Sabra   | Underwater Microgravity Sir                  | nulations              |  |
|              |         | Jennifer Gorsline                            | Dearborn Center f      | for Math, Science & Technology   |
| Place        | Code    | Organization Name                            |                        | Organization Description   |
| 1            | AMS     | American Meteorological Societ               | Y                      | Certificate of outstanding achievement   |
| 1            | NASA    | NASA Earth System Science                    |                        | Certificate of Recognition   |
| Mounika k    | (atta   | Vaginal Bacteria Associated                  | With Clinical Outcomes | of Bacterial Vaginosis   |
|              |         | Karin Nelson                                 | Northville High Sc     | hool   |
| Place        | Code    | Organization Name                            |                        | Organization Description   |
| НМ           | ASA     | American Statistical Association<br>Chapters | (ASA), Michigan        | Certificate of Recognition   |
| 6            | ASEIO   | American Society of Engineers of             | f Indian Origin        | Certificate, \$15 Gift card, Invitation to enter ASEI National YTE   |
| 1            | INVITR  | Society for In Vitro Biology                 |                        | Certificate of Achievement   |
| 5            | STATE   | MSEF   |                        | Selected for competition into the Michigan Science and Engineering Fair on March 15, 2023.   |
| Nada Pera    | cha     | Ready, Set, Grow!                            |                        |  |
|              |         | Talath Ansari                                | Crescent Academy       | y International  |
| Place        | Code    | Organization Name                            |                        | Organization Description   |
| 1            | EPA     | Environmental Protection Agen                | су                     | Congratulatory Letter of encourgement  |
| 1            | JIC     | Thermo Fisher Scientific-Junior              | nnovators Challenge    | Student is nominated for competition in the Thermo Fisher Scientific-Junior Innovators Challenge. Register online at: https://www.societyforscience.org/jic/for-nominees/ and use password of USMI02 |

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| CertificateName   | Title Teacher School                               |  |
|-------------------|--|--|
| Nadir Alam        | Slowing the Progression of Parkinson's Disease     | e in Drosophila with Exercise  |
|                   | Stephanie Kokoszka Cranbrook Ki                    | ingswood Upper School  |
| Place Code        | Organization Name                                  | Organization Description   |
| 5 STATE           | MSEF   | Selected for competition into the Michigan Science and Engineering Fair on March 15, 2023.   |
| Nasr Abdul-mujeeb | Can a bigger plane fly faster than a smaller plan  | ne?  |
|                   | Talath Ansari Crescent Aca                         | ademy International  |
| Place Code        | Organization Name                                  | Organization Description   |
| 1 JIC             | Thermo Fisher Scientific-Junior Innovators Challen | Student is nominated for competition in the Thermo Fisher Scientific-Junion Innovators Challenge. Register online at: https://www.societyforscience.org/jic/for-nominees/ and use password of USMI02 |
| Natalie Jackson   | Are Surface temperatures Affected by Atmosph       | heric Conditions?  |
|                   | Connie Atkisson Thirkell Midd                      | dle School   |
| Place Code        | Organization Name                                  | Organization Description   |
| 1 EPA             | Environmental Protection Agency                    | Congratulatory Letter of encourgement  |
| 1 JIC             | Thermo Fisher Scientific-Junior Innovators Challen | Student is nominated for competition in the Thermo Fisher Scientific-Junion Innovators Challenge. Register online at: https://www.societyforscience.org/jic/for-nominees/ and use password of USMI02 |
| Nathan Ponnudurai | A. Taxiformis and Reduction of Methane Produ       | uction in Cattle Manure  |
|                   | David Egan Larson Middl                            | le School  |
| Place Code        | Organization Name                                  | Organization Description   |
| 1 EPA             | Environmental Protection Agency                    | Congratulatory Letter of encourgement  |
| 1 JIC             | Thermo Fisher Scientific-Junior Innovators Challen | Student is nominated for competition in the Thermo Fisher Scientific-Junior Innovators Challenge. Register online at: https://www.societyforscience.org/jic/for-nominees/ and use password of USMI02 |

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| CertificateName  | Title<br>Teacher              | School                      |  |
|--|-------------------------------|-----------------------------|--|
|  |                               |                             |  |
| Nevaeh Caddell with Av<br>Alcantar and Jazmine<br>Quintana, Victoria Ruiz,<br>Brayanli Castaneda |                               | Design and Hydrodynamic     | CS   |
|  | Dr. George Goff               | Harms Elementar             | y School   |
| Place Code   | Organization Name             |                             | Organization Description   |
| 1 EPA  | Environmental Protection Ag   | ency                        | Congratulatory Letter of encourgement  |
| 2EL SHPE   | Society of Hispanic Professio | nal Engineers               | Certificate of Recognition & small gift  |
| Niama Asif   | Water Filteration             |                             |  |
|  | Wajida Taj                    | Tawheed Center S            | School   |
| Place Code   | Organization Name             |                             | Organization Description   |
| 1 JIC  | Thermo Fisher Scientific-Juni | or Innovators Challenge     | Student is nominated for competition in the Thermo Fisher Scientific-Junior Innovators Challenge. Register online at: https://www.societyforscience.org/jic/for-nominees/ and use password of USMI02 |
| Nicholas Frieler   | The Use of Collision-Induc    | ced Dissociation in Differe | ntiating Isomers   |
|  | Laura Luckins                 | Detroit Country D           | ay Upper   |
| Place Code   | Organization Name             |                             | Organization Description   |
| 5 STATE  | MSEF                          |                             | Selected for competition into the Michigan Science and Engineering Fair on March 15, 2023.   |
| 1-ST USNAVY  | United States Navy            |                             | Letter of Congratulations, ONR Medallion, Naval Science Award Certificate, and \$75 gift card  |
| Nilanjan Roy   | Validating an Ischemic Str    | oke Model on a Neurovas     | cular Unit-on-a-Chip   |
|  | Rebecca Brewer                | Troy High School            |  |
| Place Code   | Organization Name             |                             | Organization Description   |
| 5 STATE  | MSEF                          |                             | Selected for competition into the Michigan Science and Engineering Fair on March 15, 2023.   |

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| Certificate   | Name                                       | Title<br>Teacher  | School   |  |
|---|--|---|--|--|
|   |  |   |  |  |
| Nishan In   | ampudi                                     | How your new Electric C   | -  | . David language   |
|   |  | John Dougherty  | Detroit Country  |  |
|   | Code                                       | Organization Name   | (  | Organization Description   |
| 6   | ASEIO                                      | American Society of Enginee   | -  | Certificate, \$15 Gift card, Invitation to enter ASEI National YTE   |
| 2   | IEEE                                       | IEEE Southeastern Michigan  | Section  | Frameable Certificate  |
| 5   | STATE                                      | MSEF  |  | Selected for competition into the Michigan Science and Engineering Fair on March 15, 2023.   |
| 2   | TOYOTA                                     | Toyota R&D Innovation and   | Mobility   | Personalized certificate, invite to a Toyota R&D Meeting, and consideration for internship at Toyota, including \$50 cash award  |
|   | arth Menon a<br>n Karthikeyan              |   | International A  | cadomy Fact Campus   |
|   |  | nd<br>Jackie Toepel   | International A  | cademy-East Campus   |
| Siddharth   |  |   | International A  | cademy-East Campus Organization Description  |
| Siddharth   | n Karthikeyan                              | Jackie Toepel   | International A  |  |
| Siddharth<br>Place  | Karthikeyan<br>Code                        | Jackie Toepel Organization Name   |  | Organization Description  Certificate of accomplishment and complementary admission to/recognitio  |
| Place<br>3SR<br>1   | Code ASMDET SIWI                           | Jackie Toepel Organization Name ASM - Detroit Chapter Stockholm Junior Water Priz   | ze (Stockholm)   | Organization Description  Certificate of accomplishment and complementary admission to/recognitio at chapter dinner meeting.   |
| Place<br>3SR<br>1<br>Noah Cafa                            | Code ASMDET SIWI                           | Jackie Toepel Organization Name ASM - Detroit Chapter Stockholm Junior Water Priz   | ze (Stockholm)<br>il Area, and Added Mass  | Organization Description  Certificate of accomplishment and complementary admission to/recognitio at chapter dinner meeting.  Regional Award and recommendation to compete nationally  |
| Place<br>3SR<br>1<br>Noah Cafa                            | Code ASMDET SIWI                           | Jackie Toepel Organization Name ASM - Detroit Chapter Stockholm Junior Water Prize  Effect of Wind Angle, Sai   | ze (Stockholm)<br>il Area, and Added Mass  | Organization Description  Certificate of accomplishment and complementary admission to/recognitio at chapter dinner meeting.  Regional Award and recommendation to compete nationally  on the Velocity of a Sailboat   |
| Place<br>3SR<br>1<br>Noah Cafa                            | Code ASMDET SIWI agna with Jack            | Jackie Toepel Organization Name ASM - Detroit Chapter Stockholm Junior Water Prize Effect of Wind Angle, Sai  | ze (Stockholm)<br>il Area, and Added Mass<br>Macomb Math                                   | Organization Description  Certificate of accomplishment and complementary admission to/recognitio at chapter dinner meeting.  Regional Award and recommendation to compete nationally  on the Velocity of a Sailboat  ematics Science Technology Center  |
| Place 3SR 1 Noah Cafa Stevensor Place 1 Nolan He          | Code ASMDET SIWI agna with Jack            | Jackie Toepel Organization Name ASM - Detroit Chapter Stockholm Junior Water Prize Effect of Wind Angle, Sai Jamie Hilliard Organization Name US Metric Association Award | ze (Stockholm)<br>il Area, and Added Mass<br>Macomb Math                                   | Organization Description  Certificate of accomplishment and complementary admission to/recognitio at chapter dinner meeting.  Regional Award and recommendation to compete nationally  on the Velocity of a Sailboat  ematics Science Technology Center  Organization Description  Certificate |
| Place 3SR 1 Noah Cafa Stevensor Place 1 Nolan He          | Code ASMDET SIWI agna with Jackn Code USMA | Jackie Toepel Organization Name ASM - Detroit Chapter Stockholm Junior Water Prize Effect of Wind Angle, Sai Jamie Hilliard Organization Name US Metric Association Award | ze (Stockholm)<br>il Area, and Added Mass<br>Macomb Math                                   | Organization Description  Certificate of accomplishment and complementary admission to/recognitio at chapter dinner meeting.  Regional Award and recommendation to compete nationally  on the Velocity of a Sailboat  ematics Science Technology Center  Organization Description  Certificate |
| Place 3SR 1 Noah Cafa Stevenson Place 1 Nolan He Atak and | Code ASMDET SIWI agna with Jackn Code USMA | Jackie Toepel Organization Name ASM - Detroit Chapter Stockholm Junior Water Prize Effect of Wind Angle, Sai Jamie Hilliard Organization Name US Metric Association Award | ze (Stockholm)<br>il Area, and Added Mass<br>Macomb Math<br>d<br>lector and Mycelium Filte | Organization Description  Certificate of accomplishment and complementary admission to/recognitio at chapter dinner meeting.  Regional Award and recommendation to compete nationally  on the Velocity of a Sailboat  ematics Science Technology Center  Organization Description  Certificate |

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|                           |                        | Title  |  |  |
|---------------------------|------------------------|--|--|--|
| Certificate               |                        | Teacher  | School                                     |  |
| 5                         | STATE                  | MSEF   |  | Selected for competition into the Michigan Science and Engineering Fair on March 15, 2023.   |
| 1                         | USAID                  | US Agency for International Dev                                    | velopment                                  | Science Champion Award Certificate   |
| Noor Faki                 | ih                     | Lets Get Energized!  |  |  |
|                           |                        | Talath Ansari  | Crescent Academy                           | International  |
| Place                     | Code                   | Organization Name  |  | Organization Description   |
| 1                         | JIC                    | Thermo Fisher Scientific-Junior                                    | Innovators Challenge                       | Student is nominated for competition in the Thermo Fisher Scientific-Junior Innovators Challenge. Register online at: https://www.societyforscience.org/jic/for-nominees/ and use password of USMI02 |
| Noor Mol<br>Shahd Alg     | hassab with<br>ghazali | Using Cabbage to Determine   | e PH                                       |  |
|                           |                        | Eman Mohammed Azizi  | Michigan Islamic A                         | cademy MS  |
| Place                     | Code                   | Organization Name  |  | Organization Description   |
| 1                         | JIC                    | Thermo Fisher Scientific-Junior                                    | Innovators Challenge                       | Student is nominated for competition in the Thermo Fisher Scientific-Junior Innovators Challenge. Register online at:  |
|                           |                        |  |  | https://www.societyforscience.org/jic/for-nominees/ and use password of USMI02   |
|                           | with Anthony           | Li A Wearable Sensor for Conti                                     | inuous Heart Sound Mon                     | USMI02   |
|                           | •                      | Li A Wearable Sensor for Conti                                     |  | USMI02   |
| and Lilliar               | n Jing                 | Rebecca Brewer   | inuous Heart Sound Mon<br>Troy High School | USMI02<br>itoring  |
| and Lilliar               | •                      |  |  | USMI02 itoring  Organization Description   |
| and Lilliar<br>Place      | n Jing<br>Code         | Rebecca Brewer Organization Name                                   |  | USMI02 itoring   |
| and Lilliar<br>Place<br>1 | Code<br>ISEF<br>STATE  | Rebecca Brewer Organization Name ISEF MSEF                         |  | USMI02 itoring  Organization Description SEFMD ISEF Finalist for 2022, May 8-13, 2022  |
| and Lilliar Place 1 2     | Code<br>ISEF<br>STATE  | Rebecca Brewer Organization Name ISEF MSEF Salt, the deadly killer | Troy High School                           | USMI02 itoring  Organization Description SEFMD ISEF Finalist for 2022, May 8-13, 2022 Second Place Award of \$100 Cash Award   |
| Place 1 2 Omar Kut        | Code<br>ISEF<br>STATE  | Rebecca Brewer Organization Name ISEF MSEF                         |  | USMI02 itoring  Organization Description SEFMD ISEF Finalist for 2022, May 8-13, 2022 Second Place Award of \$100 Cash Award   |

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| CertificateNa   | ame  | Title<br>Teacher   | School   |  |
|---|--|--|--|--|
| Omaree Ishr   | mael   | Use Of Aerial Drone Technology   | y To Monitor Air Qua   | ality In Urban Communities   |
|   |  | Sharon Holloway  | Davis Aerospace T  | Fechnical High School  |
| Place C<br>3-SR   | Code<br>AIRWAS   | Organization Name Air Waste Management Association   | n  | Organization Description Certificate and \$100 third place award   |
| 1   | EPA  | Environmental Protection Agency  |  | Congratulatory Letter of encourgement  |
| 1   | ISEF   | ISEF   |  | SEFMD ISEF Finalist for 2022, May 8-13, 2022   |
| 1   | NGS  | National Geographic Society  |  | \$100 award and a certificate  |
| 1   | NOAA   | United States Department of Comr<br>Atmosphere   | merce Oceans and   | Certificate of Recognition   |
|   | STATE  | MSEF   |  | Selected for competition into the Michigan Science and Engineering Fair on   |
|   |  | Fortifying Teeth Against Dietary   | / Acids  | March 15, 2023.  |
| Payton Stem   | nmerich with   | n Fortifying Teeth Against Dietary  Jamie Hilliard   |  | ·  |
| Payton Stem   | mmerich with<br>artin  |  |  | March 15, 2023.  |
| Payton Stem<br>Delaney Ma<br>Place C                      | mmerich with<br>artin  | Jamie Hilliard   |  | March 15, 2023.  natics Science Technology Center  |
| Payton Stem<br>Delaney Ma<br>Place C<br>5                 | mmerich with<br>artin<br>Code<br>STATE                           | Jamie Hilliard Organization Name   |  | March 15, 2023.  natics Science Technology Center  Organization Description  Selected for competition into the Michigan Science and Engineering Fair on  |
| Payton Stem<br>Delaney Ma<br>Place C<br>5                 | mmerich with<br>artin<br>Code<br>STATE                           | Jamie Hilliard Organization Name MSEF  | Macomb Mathem  | March 15, 2023.  natics Science Technology Center  Organization Description  Selected for competition into the Michigan Science and Engineering Fair on  |
| Payton Stem<br>Delaney Ma<br>Place C<br>5                 | mmerich with<br>artin<br>Code<br>STATE                           | Jamie Hilliard Organization Name MSEF  Accessible PFAS Testing Device  | Macomb Mathem  | March 15, 2023.  natics Science Technology Center  Organization Description  Selected for competition into the Michigan Science and Engineering Fair on March 15, 2023.  |
| Payton Stem<br>Delaney Ma<br>Place C<br>5<br>Peter Schon  | mmerich with<br>artin<br>Code<br>STATE                           | Jamie Hilliard Organization Name MSEF  Accessible PFAS Testing Device Jennifer Gorsline  | Macomb Mathem  | March 15, 2023.  natics Science Technology Center  Organization Description  Selected for competition into the Michigan Science and Engineering Fair on March 15, 2023.  for Math, Science & Technology  |
| Payton Stem Delaney Ma  Place C 5  Peter Schon  Place C 1 | mmerich with<br>artin<br>Code<br>STATE<br>Indorf<br>Code<br>SIWI | Jamie Hilliard Organization Name MSEF  Accessible PFAS Testing Device Jennifer Gorsline Organization Name  | Macomb Mathem  Dearborn Center (                                 | March 15, 2023.  natics Science Technology Center  Organization Description  Selected for competition into the Michigan Science and Engineering Fair on March 15, 2023.  for Math, Science & Technology  Organization Description  Regional Award and recommendation to compete nationally |
| Payton Stem Delaney Ma  Place C 5  Peter Schon  Place C 1 | mmerich with<br>artin<br>Code<br>STATE<br>Indorf<br>Code<br>SIWI | Jamie Hilliard Organization Name MSEF  Accessible PFAS Testing Device Jennifer Gorsline Organization Name Stockholm Junior Water Prize (Stockholm Junior Wat | Macomb Mathem  Dearborn Center (  ckholm)  hity, Temperature and | March 15, 2023.  natics Science Technology Center  Organization Description  Selected for competition into the Michigan Science and Engineering Fair on March 15, 2023.  for Math, Science & Technology  Organization Description  Regional Award and recommendation to compete nationally |

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|                        |                       | Title                                    |                              |   |
|------------------------|-----------------------|--|------------------------------|---|
| Certificate            | Name                  | Teacher                                  | School                       |   |
| 1                      | JIC                   | Thermo Fisher Scientific-Jur             | nior Innovators Challenge    | Student is nominated for competition in the Thermo Fisher Scientific-Junior Innovators Challenge. Register online at: https://www.societyforscience.org/jic/for-nominees/ and use password of USMI02                |
| Prakash S<br>Abdolla H | hekhar with<br>legazy | Developing an Improved                   | l Parallel Gibbs Sampling Al | gorithm for DNA Motif Finding   |
|                        |                       | Rebecca Joyce                            | Kalamazoo Area N             | Math and Science Center   |
| Place                  | Code                  | Organization Name                        |                              | Organization Description  |
| НМ                     | ASA                   | American Statistical Associa<br>Chapters | ition (ASA), Michigan        | Certificate of Recognition  |
| Pratyush               | Inturi                | Track-Your-Pet                           |                              |   |
|                        |                       | David Egan                               | Larson Middle Sch            | hool  |
| Place                  | Code                  | Organization Name                        |                              | Organization Description  |
| 1                      | BCODE                 | Broadcom Foundation-Codi                 | ng for Commitment            | \$250 Gift Certificate, Raspberry Pi Foundation Official RP400 Personal Computer Kit, Public recognition at Broadcom Foundation sponsored competitions and receipt of a formal certificate from Broadcom Foundation |
| 1                      | DOD                   | DOD-STEM award from Soc                  | iety for Science             | DOD STEM Leadership Prize certificate, voucher for \$100  |
| 1                      | IEEE                  | IEEE Southeastern Michigar               | Section                      | Frameable Certificate, \$100 cash award   |
| 1                      | JIC                   | Thermo Fisher Scientific-Jur             | nior Innovators Challenge    | Student is nominated for competition in the Thermo Fisher Scientific-Junior Innovators Challenge. Register online at: https://www.societyforscience.org/jic/for-nominees/ and use password of USMI02                |
| 1                      | LEMEL                 | Lemelson Foundation                      |                              | First Place Award   |
| Qihao Wa               | ang                   | Optimized nucleic acid to                | esting                       |   |
|                        | -                     | Patricia Hanlan                          | Detroit Country D            | Pay Upper   |
| Place                  | Code                  | Organization Name                        | ,                            | Organization Description  |
| 5                      | STATE                 | MSEF                                     |                              | Selected for competition into the Michigan Science and Engineering Fair on March 15, 2023.  |

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|                 | Title                             |                         |  |
|-----------------|-----------------------------------|-------------------------|--|
| CertificateName | Teacher                           | School                  |  |
| Radee Khan      | Garbage Sorter                    |                         |  |
|                 | Eman Mohammed Azizi               | Michigan Islamic        | Academy MS   |
| Place Code      | Organization Name                 |                         | Organization Description   |
| 1 JIC           | Thermo Fisher Scientific-Junior I | nnovators Challenge     | Student is nominated for competition in the Thermo Fisher Scientific-Junior Innovators Challenge. Register online at: https://www.societyforscience.org/jic/for-nominees/ and use password of USMI02 |
| Rawan Fakih     | The Phenomenon between t          | he Vast Difference of D | Diagnostic Rates of ASD  |
|                 | Jennifer Gorsline                 | Dearborn Center         | for Math, Science & Technology   |
| Place Code      | Organization Name                 |                         | Organization Description   |
| 5 STATE         | MSEF                              |                         | Selected for competition into the Michigan Science and Engineering Fair on March 15, 2023.   |
| Ricardo Pastor  | Optimizing the Window Met         | hod for Shortest Additi | on Chain with Applications   |
|                 | Matthew Miller                    | MSEF-Saginaw Ar         | ts and Sciences  |
| Place Code      | Organization Name                 |                         | Organization Description   |
| 4 STATE         | MSEF                              |                         | Fourth Place Award of \$50 Cash Award  |
| Rifat Adrianto  | The Structure for Speed           |                         |  |
|                 | Talath Ansari                     | Crescent Academ         | y International  |
| Place Code      | Organization Name                 |                         | Organization Description   |
| 1 JIC           | Thermo Fisher Scientific-Junior I | nnovators Challenge     | Student is nominated for competition in the Thermo Fisher Scientific-Junior Innovators Challenge. Register online at: https://www.societyforscience.org/jic/for-nominees/ and use password of USMI02 |
| Rohit Mahesh    | ECGenius - A Novel Transforr      | mer-Based CVD Diagno    | stic Tool  |
|                 | Danielle Ramos                    | Salem High Schoo        | I  |
| Place Code      | Organization Name                 |                         | Organization Description   |
| 6 ASEIO         | American Society of Engineers o   | of Indian Origin        | Certificate, \$15 Gift card, Invitation to enter ASEI National YTE   |

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| CertificateName      | Title Teacher School  |   |
|----------------------|---|---|
| Ruisi Ma             | The Correlation between Stress and Procr                                | rastination   |
|                      | John Dougherty Detroit  | Country Day Upper   |
| Place Code           | Organization Name   | Organization Description  |
| 1 APA                | American Psychological Association                                      | Certificate of accomplishment   |
| Rumaysa Khan         | caff-eine-ful Zebra Fish  |   |
|                      | Zehra Beg Huda Սր   | pper School   |
| Place Code           | Organization Name   | Organization Description  |
| 1 JIC                | Thermo Fisher Scientific-Junior Innovators Ch                           | ·   |
|                      |   | Innovators Challenge. Register online at:<br>https://www.societyforscience.org/jic/for-nominees/ and use password of  |
|                      |   | USMI02  |
| Ryan Khan            | Best Insulation Material  |   |
|                      | Wajida Taj Tawhee   | ed Center School  |
| Place Code           | Organization Name   | Organization Description  |
| 2JR ASHRAE           | Amercian Society of Heating, Refrigerating ar<br>Conditioning Engineers | nd Air Book and certificate   |
| 1 JIC                | Thermo Fisher Scientific-Junior Innovators Ch                           | · · · · · · · · · · · · · · · · · · ·   |
|                      |   | Innovators Challenge. Register online at:   |
|                      |   | https://www.societyforscience.org/jic/for-nominees/ and use password of USMI02  |
| Saanvisri Karnakanti | Wind Energy vs. Solar Energy  |   |
|                      | Heather Lechner Plymout   | th Scholars Middle School   |
| Place Code           | Organization Name   | Organization Description  |
| 1 EPA                | <b>Environmental Protection Agency</b>                                  | Congratulatory Letter of encourgement   |
| 1 JIC                | Thermo Fisher Scientific-Junior Innovators Ch                           | nallenge Student is nominated for competition in the Thermo Fisher Scientific-Junior Innovators Challenge. Register online at: https://www.societyforscience.org/jic/for-nominees/ and use password of USMI02 |

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| CertificateName       | Title<br>Teacher             | School                       |   |
|-----------------------|------------------------------|------------------------------|---|
| Sahiba Kaur           | A Mathematical Compari       | son of Binary Pool Testing   | and Single Covid Tests  |
|                       | Diane White                  | MSEF-Midland H               | H Dow HS  |
| Place Code<br>5 STATE | Organization Name MSEF       |                              | Organization Description Selected for competition into the Michigan Science and Engineering Fair of March 15, 2023.   |
| Salena Zhu            | Evaluation of Different M    | lethods to Isolate Extracell | lular Vesicles  |
|                       | Rebecca Joyce                | Kalamazoo Area I             | Math and Science Center   |
| Place Code            | Organization Name            |                              | Organization Description  |
| 5 STATE               | MSEF                         |                              | Selected for competition into the Michigan Science and Engineering Fair o March 15, 2023.   |
| Sam Roberts           | High altitude atmospheri     | c research equipment reco    | overy   |
|                       | Jennifer Gorsline            | Dearborn Center              | for Math, Science & Technology  |
| Place Code            | Organization Name            |                              | Organization Description  |
| 5 STATE               | MSEF                         |                              | Selected for competition into the Michigan Science and Engineering Fair of March 15, 2023.  |
| 1 USAF                | United States Air Force      |                              | Congratulatory Letter and certificate   |
| Samadhi Attanayaka    | Design and Application o     | f MXene-Based Cortisol Sw    | veat Sensors  |
|                       | Rebecca Joyce                | Kalamazoo Area I             | Math and Science Center   |
| Place Code            | Organization Name            |                              | Organization Description  |
| 1 STATE               | MSEF                         |                              | First Place Award of \$250 Cash award   |
| 1 SWE                 | Society of Women Engineers   | s - Detroit                  | Certificate of recognition, gift basket, invitation to SWE Detroit banquet  |
| Samanta Galicia       | Which toilet paper cleans    | s the best                   |   |
|                       | Carol Smuk                   | Academy of the A             | Americas-Middle School  |
| Place Code            | Organization Name            |                              | Organization Description  |
| 1 JIC                 | Thermo Fisher Scientific-Jun | ior Innovators Challenge     | Student is nominated for competition in the Thermo Fisher Scientific-Junio Innovators Challenge. Register online at: https://www.societyforscience.org/jic/for-nominees/ and use password of USMIO2 |

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| Т | itle |  |
|---|------|--|
|   |      |  |

| ertificate!           | lame          | Teacher  | School               |  |
|-----------------------|---------------|--|----------------------|--|
| Samuel Pe<br>Rembecki | nn with Holde | n Don't Let the Plastics Dissolve A              | way                  |  |
|                       |               | Jamie Hilliard                                   | Macomb Mathema       | tics Science Technology Center   |
| Place                 | Code          | Organization Name                                |                      | Organization Description   |
| НМ                    | ASA           | American Statistical Association (AS Chapters    | SA), Michigan        | Certificate of Recognition   |
| 1                     | EPA           | Environmental Protection Agency                  |                      | Congratulatory Letter of encourgement  |
| 5                     | STATE         | MSEF   |                      | Selected for competition into the Michigan Science and Engineering Fair on March 15, 2023.   |
| Sanjana Du            | uttagupta     | User-Friendly Defective Solar Ce                 |                      | -  |
|                       |               | Karin Nelson                                     | Northville High Scho | ool  |
| Place                 |               | Organization Name                                |                      | Organization Description   |
| 2                     | ASA           | American Statistical Association (AS<br>Chapters | SA), Michigan        | \$50 Award of Merit  |
| 1                     | AWG           | Association of Women GeoScientis                 | ts                   | Awards Certificate   |
| 1                     | EMA           | Environmental Management Association             |                      | First place scholarship award on behalf of the Environmental Management Association, certificate and an award of \$1500. Invitation to the Environmental Achievement Awards event at the Detroit Yacht Club on May 18 to receive their award and discuss + display their projects to industry professionals. |
| 1                     | EPA           | Environmental Protection Agency                  |                      | Congratulatory Letter of encourgement  |
| 5                     | STATE         | MSEF   |                      | Selected for competition into the Michigan Science and Engineering Fair on March 15, 2023.   |
| 2                     | SWE           | Society of Women Engineers - Detr                | oit                  | Certificate of recognition, gift basket, invitation to SWE Detroit banquet   |
| Sergio Her            | mosillo       | The Science Behind Hovercrafts                   |                      |  |
|                       |               | William Tucker                                   | Holy Redeemer Cat    | holic Grade School   |
| Place                 | Code          | Organization Name                                |                      | Organization Description   |

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| 0.110                  | Title  |  |
|------------------------|--|--|
| CertificateName  1 JIC | Teacher School  Thermo Fisher Scientific-Junior Innovators Challen | Student is nominated for competition in the Thermo Fisher Scientific-Junior Innovators Challenge. Register online at: https://www.societyforscience.org/jic/for-nominees/ and use password of USMI02 |
| Shiva Egan             | Low Density Radiation Shielding for Space Expl                     | oration  |
|                        | Jenn Carlson Roeper Eleme  | entary   |
| Place Code             | Organization Name  | Organization Description   |
| 1 EPA                  | Environmental Protection Agency                                    | Congratulatory Letter of encourgement  |
| 1 FPC                  | Fino Plane Co  | Orientation/instructional flight down the Detroit River, over the Ambassador Bridge, and back to Pontiac   |
| 1EL GLCHPS             | Great Lakes Chapter Health Physics Society                         | EL 1st Place Award recognizing outstanding contributions by students in grades 3-5 to the understanding of the applications of radiation and its impact on the environment and health.               |
| Shubhan Nagarkar       | Maximizing Osteogenesis through Optimization                       | n of Biodegradable Polymer Scaffold  |
|                        | Diane White MSEF-Midlan  | nd HH Dow HS   |
| Place Code             | Organization Name  | Organization Description   |
| HM ASA                 | American Statistical Association (ASA), Michigan Chapters          | Certificate of Recognition   |
| 5 ASEIO                | American Society of Engineers of Indian Origin                     | Certificate, \$15 Gift card, Invitation to enter ASEI National YTE   |
| 3 STATE                | MSEF   | Third Place Award of \$75 Cash Award   |
| Simran Adnani          | Spoonful of sugar makes health go down: Which                      | ch drink has the least sugar?  |
|                        | Jenn Carlson Roeper Eleme  | entary   |
| Place Code             | Organization Name  | Organization Description   |
| 1-EL NSBE              | National Society of Black Engineers: Detroit Professionals         | Elementary Division: Certificate of recognition, \$100 stipend and NSBE Jr. Membership   |
| Skye Leta              | Extrinsic Teeth Staining   |  |
|                        | Pamela Clark Oakland Chris   | stian School-MS  |
| Place Code             | Organization Name  | Organization Description   |

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| Certificate          | eName                           | Teacher                             | School               |  |
|----------------------|---------------------------------|-------------------------------------|----------------------|--|
| 1                    | JIC                             | Thermo Fisher Scientific-Junior Inn | ovators Challenge    | Student is nominated for competition in the Thermo Fisher Scientific-Junior Innovators Challenge. Register online at: https://www.societyforscience.org/jic/for-nominees/ and use password of USMI02 |
| Sreeman<br>Joe Wiate | Charabuddi<br>er                | with Development of a Novel Hydro   | gen Generation and   | Storage System derived from Wat  |
|                      |                                 | Stephanie Kokoszka                  | Cranbrook Kingsv     | vood Upper School  |
| Place                | Code                            | Organization Name                   |                      | Organization Description   |
| 1                    | EPA                             | Environmental Protection Agency     |                      | Congratulatory Letter of encourgement  |
| 5                    | STATE                           | MSEF                                |                      | Selected for competition into the Michigan Science and Engineering Fair on March 15, 2023.   |
| Srivarshir           | niraj Papisett                  | y Sunshade Backpack: The Prever     | ntion Of Heat        |  |
|                      |                                 | David Egan                          | Larson Middle Scl    | hool   |
| Place                | Code                            | Organization Name                   |                      | Organization Description   |
| 1                    | EPA                             | Environmental Protection Agency     |                      | Congratulatory Letter of encourgement  |
|                      | taru with Asł<br>I and Latifa S | ·                                   | coproteins as an Alt | ternative to Native Glycoprote   |
|                      |                                 | Rebecca Joyce                       | Kalamazoo Area I     | Math and Science Center  |
| Place                | Code                            | Organization Name                   |                      | Organization Description   |
| 5                    | STATE                           | MSEF                                |                      | Selected for competition into the Michigan Science and Engineering Fair on March 15, 2023.   |
| 3                    | STATE                           | MSEF                                |                      | Third Place Award of \$75 Cash Award   |
| Sumayya              | Syed                            | The Truth Behind Mouthwash          |                      |  |
|                      |                                 | Talath Ansari                       | Crescent Academ      | y International  |
| Place                | Code                            | Organization Name                   |                      | Organization Description   |
| 1                    | JIC                             | Thermo Fisher Scientific-Junior Inn | ovators Challenge    | Student is nominated for competition in the Thermo Fisher Scientific-Junior Innovators Challenge. Register online at: https://www.societyforscience.org/jic/for-nominees/ and use password of USMI02 |

Title

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|                    |                     | Title   |  |  |
|--------------------|---------------------|---|--|--|
| Certificate        | Name                | Teacher   | School   |  |
| Supra Kuc          | chibhatla           | Impact of Elevated CO2 Levels   | on the UHI Effect  |  |
|                    |                     | Jackie Toepel   | International Acad   | demy-East Campus   |
| Place              | Code                | Organization Name   |  | Organization Description   |
| 1                  | AMS                 | American Meteorological Society   |  | Certificate of outstanding achievement   |
| 6                  | ASEIO               | American Society of Engineers of  | Indian Origin  | Certificate, \$15 Gift card, Invitation to enter ASEI National YTE   |
| 1                  | EPA                 | Environmental Protection Agency   | /  | Congratulatory Letter of encourgement  |
| 1-ST               | NOAA                | United States Department of Con<br>Atmosphere   | nmerce Oceans and  | Certificate of Recognition   |
| 5                  | STATE               | MSEF  |  | Selected for competition into the Michigan Science and Engineering Fair on March 15, 2023.   |
| Susana Be          | ermejo              | What's in the Water?  |  |  |
|                    |                     | Dr. George Goff   | Harms Elementary   | y School   |
| Place              | Code                | Organization Name   |  | Organization Description   |
| 1                  | EPA                 | Environmental Protection Agency   | /  | Congratulatory Letter of encourgement  |
| 1EL                | SHPE                | Society of Hispanic Professional E  |  | - 16 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1   |
|                    |                     | Society of Hispatric Professional E   | ingineers  | Certificate of Recognition & Small Gift  |
|                    | eng with Davy       | Exploring Potential Application   |  | Certificate of Recognition & Small Gift  |
|                    | eng with Davy       | , ,   |  |  |
| Wang               | eng with Davy  Code | Exploring Potential Application   | ns of Piezoelectricity   |  |
| Wang               |                     | Exploring Potential Application Song Song   | ns of Piezoelectricity<br>Boulan Park Midd   | lle School Organization Description Student is nominated for competition in the Thermo Fisher Scientific-Junion Innovators Challenge. Register online at:  |
| Wang<br>Place      | Code<br>JIC         | Exploring Potential Application  Song Song  Organization Name   | ns of Piezoelectricity<br>Boulan Park Midd<br>nnovators Challenge                    | lle School Organization Description Student is nominated for competition in the Thermo Fisher Scientific-Junion Innovators Challenge. Register online at: https://www.societyforscience.org/jic/for-nominees/ and use password of USMI02 |
| Wang<br>Place<br>1 | Code<br>JIC         | Exploring Potential Application  Song Song  Organization Name  Thermo Fisher Scientific-Junior In                               | ns of Piezoelectricity<br>Boulan Park Midd<br>nnovators Challenge                    | lle School Organization Description Student is nominated for competition in the Thermo Fisher Scientific-Junior Innovators Challenge. Register online at: https://www.societyforscience.org/jic/for-nominees/ and use password of USMI02 |
| Place 1 Tanay Par  | Code<br>JIC         | Exploring Potential Application  Song Song  Organization Name  Thermo Fisher Scientific-Junior In  Dementia Al: Computer Vision | ns of Piezoelectricity  Boulan Park Midd  nnovators Challenge  n and Al Based Mobile | lle School Organization Description Student is nominated for competition in the Thermo Fisher Scientific-Junior Innovators Challenge. Register online at: https://www.societyforscience.org/jic/for-nominees/ and use password of USMI02 |

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| 0 .::         |            | Title                                       |                             |  |
|---------------|------------|---|-----------------------------|--|
| Certificate 5 | STATE      | Teacher<br>MSEF                             | School                      | Selected for competition into the Michigan Science and Engineering Fair on March 15, 2023.   |
| Tayveon J     | ackson     | A study of the most effective               | ve antacid                  |  |
|               |            | Sharon Holloway                             | Davis Aerospace             | Technical High School  |
| Place         | Code       | Organization Name                           |                             | Organization Description   |
| 5             | STATE      | MSEF  |                             | Selected for competition into the Michigan Science and Engineering Fair on March 15, 2023.   |
| Thomas Ig     | gnaczak    | Investigation of filamentou                 | s fungi's ability to resist | heavy metals based on e  |
|               |            | David Thomson                               | Stoney Creek Hig            | h School   |
| Place         | Code       | Organization Name                           |                             | Organization Description   |
| 2             | ASA        | American Statistical Associatio<br>Chapters | n (ASA), Michigan           | \$50 Award of Merit  |
| 1             | EPA        | Environmental Protection Age                | ncy                         | Congratulatory Letter of encourgement  |
| 5             | STATE      | MSEF  |                             | Selected for competition into the Michigan Science and Engineering Fair on March 15, 2023.   |
| Tyler Ding    | gman       | The Negative Effects Energy                 | y Drinks Have on Teeth      |  |
|               |            | Cynthia Schmitz                             | St. Patrick Eleme           | ntary-Whitelake  |
| Place         | Code       | Organization Name                           |                             | Organization Description   |
| 1JR           | USNAVY     | United States Navy                          |                             | Letter of Congratulations, ONR Medallion, Naval Science Award Certificate  |
| Umaamal       | n Suleiman | Fascinating Bombs!                          |                             |  |
|               |            | Wajida Taj                                  | Tawheed Center              | School   |
| Place         | Code       | Organization Name                           |                             | Organization Description   |
| 1             | JIC        | Thermo Fisher Scientific-Junion             | Innovators Challenge        | Student is nominated for competition in the Thermo Fisher Scientific-Junior Innovators Challenge. Register online at: https://www.societyforscience.org/jic/for-nominees/ and use password of USMI02 |

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| CertificateN | Name   | Title<br>Teacher   | School                   |  |
|--------------|--------|--|--------------------------|--|
| Veda Mantena |        | The Effect of Bond Strength on the Energy Difference of Molecular Orbitals |                          |  |
|              |        | Laura Luckins  | Detroit Country D        | Pay Upper  |
| Place        | Code   | Organization Name  |                          | Organization Description   |
| 3SR          | ASMDET | ASM - Detroit Chapter  |                          | Certificate of accomplishment and complementary admission to/recognition at chapter dinner meeting.  |
| 5            | STATE  | MSEF   |                          | Selected for competition into the Michigan Science and Engineering Fair on March 15, 2023.   |
| Vikram Go    | ddla   | Autonomous Navigation of   | f Medical Microbots with | Deep Reinforcement Learning  |
|              |        | Patricia Hanlan  | Detroit Country D        | ay Upper   |
| Place        | Code   | Organization Name  |                          | Organization Description   |
| НМ           | ASA    | American Statistical Association Chapters                                  | on (ASA), Michigan       | Certificate of Recognition   |
| 1            | ASEIO  | American Society of Engineers  | s of Indian Origin       | Certificate, \$30 Gift Card, Invitation to enter ASEI National YTE   |
| 1            | BIOMED | Regeneron BioMedical Award   |                          | Award Certificate, special recognition, and \$500 award  |
| 1            | ISEF   | ISEF   |                          | SEFMD ISEF Finalist for 2022, May 8-13, 2022   |
| 1            | STATE  | MSEF   |                          | First Place Award of \$250 Cash award  |
| 1            | USAF   | United States Air Force  |                          | Congratulatory Letter and certificate  |
| Wynton Da    | acres  | Which material will create   | the best geometric shape | e to hold weight?  |
|              |        | Branti Jackson   | Burton Internatio        | nal Academy-MS   |
| Place        | Code   | Organization Name  |                          | Organization Description   |
| 1            | JIC    | Thermo Fisher Scientific-Junio   | or Innovators Challenge  | Student is nominated for competition in the Thermo Fisher Scientific-Junior Innovators Challenge. Register online at: https://www.societyforscience.org/jic/for-nominees/ and use password of USMI02 |
| Xavier Cor   | nell   | Melt That Ice  |                          |  |
|              |        | Barbara Case   | Catherine C. Black       | kwell Institute-Middle School  |
| Place        | Code   | Organization Name  |                          | Organization Description   |

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| CertificateNam  1 JIC |           | Title<br>Teacher<br>Thermo Fisher Scientific-Junior Inno | School<br>vators Challenge | Student is nominated for competition in the Thermo Fisher Scientific-Junior Innovators Challenge. Register online at: https://www.societyforscience.org/jic/for-nominees/ and use password of USMI02  |
|-----------------------|-----------|--|----------------------------|---|
| Yandel Jarrells       | S         | Does your throwing pitch affect h                        | now far you throw?         |   |
|                       |           | Dr. George Goff  | Harms Elementary           | School  |
| Place Cod             | de        | Organization Name  |                            | Organization Description  |
| 1 EP                  | PA        | Environmental Protection Agency                          |                            | Congratulatory Letter of encourgement   |
| Yanely Angulo         | o-barraza | What Dish Soap Cleans Better?                            |                            |   |
|                       |           | Carol Smuk   | Academy of the An          | nericas-Middle School   |
| Place Cod             | de        | Organization Name  |                            | Organization Description  |
| 1 JIC                 | С         | Thermo Fisher Scientific-Junior Inno                     | vators Challenge           | Student is nominated for competition in the Thermo Fisher Scientific-Junior Innovators Challenge. Register online at: https://www.societyforscience.org/jic/for-nominees/ and use password of USMI02  |
| Yash Bingi            |           | Using Machine Learning to Classi                         | fy Fetal Health and A      | Analyze Feature Importance  |
|                       |           | Danielle Ramos   | Salem High School          |   |
| Place Cod             | de        | Organization Name  |                            | Organization Description  |
| 6 AS                  | SEIO      | American Society of Engineers of Inc                     | dian Origin                | Certificate, \$15 Gift card, Invitation to enter ASEI National YTE  |
| 4 ST                  | TATE      | MSEF   |                            | Fourth Place Award of \$50 Cash Award   |
| 1-ST US               | SAID      | US Agency for International Develop                      | ment                       | Science Champion Award Certificate  |
| Yenna Park            |           | Is too much road salt harmful for                        | the environment?           |   |
|                       |           | Stephanie Kokoszka                                       | Cranbrook Kingswo          | ood Upper School  |
| Place Cod             | de        | Organization Name  |                            | Organization Description  |
| 3 EN                  | MA        | Environmental Management Associa                         | ation                      | Third place scholarship award on behalf of the Environmental Management Association, certificate and an award of \$500. Invitation to the Environmental Achievement Awards event at the Detroit Yacht Club on May 18 to receive their award and discuss + display their projects to industry professionals. |

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| CertificateName | Title Teacher School                                 |  |
|-----------------|--|--|
| 1 SIWI          | Stockholm Junior Water Prize (Stockholm)             | Regional Award and recommendation to compete nationally  |
| Yifei Cheng     | Measuring Voltage Threshold for Different Color LEI  | Ds   |
|                 | David Lurie Plymouth Scholars                        | s Middle School  |
| Place Code      | Organization Name                                    | Organization Description   |
| 1 JIC           | Thermo Fisher Scientific-Junior Innovators Challenge | Student is nominated for competition in the Thermo Fisher Scientific-Junior Innovators Challenge. Register online at: https://www.societyforscience.org/jic/for-nominees/ and use password of USMI02 |
| Yomna Kouki     | Paper Chromatography                                 |  |
|                 | Wajida Taj Tawheed Center S                          | School   |
| Place Code      | Organization Name                                    | Organization Description   |
| 1 JIC           | Thermo Fisher Scientific-Junior Innovators Challenge | Student is nominated for competition in the Thermo Fisher Scientific-Junior Innovators Challenge. Register online at: https://www.societyforscience.org/jic/for-nominees/ and use password of USMI02 |
| Yusuf Almadrahi | Does toothpaste protect your teeth from decay.       |  |
|                 | Talath Ansari Crescent Academy                       | y International  |
| Place Code      | Organization Name                                    | Organization Description   |
| 1 JIC           | Thermo Fisher Scientific-Junior Innovators Challenge | Student is nominated for competition in the Thermo Fisher Scientific-Junior Innovators Challenge. Register online at: https://www.societyforscience.org/jic/for-nominees/ and use password of USMI02 |
| Yusuf Ateequi   | Food Trash to be Gas                                 |  |
|                 | Talath Ansari Crescent Academy                       | y International  |
| Place Code      | Organization Name                                    | Organization Description   |
| 1 JIC           | Thermo Fisher Scientific-Junior Innovators Challenge | Student is nominated for competition in the Thermo Fisher Scientific-Junior Innovators Challenge. Register online at: https://www.societyforscience.org/jic/for-nominees/ and use password of USMI02 |

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| Place Code          | Stephanie Kokoszka Organization Name                   | Cranbrook Kingswo     | od Upper School Organization Description  |
|---------------------|--|-----------------------|---|
| hongsheng Cheng     | Deep learning based denoising o                        | f super-resolution im | nages of protein aggregates   |
| 5 STATE             | MSEF   |                       | Selected for competition into the Michigan Science and Engineering Fair on March 15, 2023.            |
| Place Code          | Organization Name                                      |                       | Organization Description  |
|                     | Riccardo Di Pasquo                                     | Detroit Country Day   | y Upper   |
| ayan Tariq          | How much Ethanol?                                      |                       |   |
| 3-JR AIRWAS         | Air Waste Management Association                       |                       | Certificate and \$100 third place award   |
| Place Code          | Organization Name                                      |                       | Organization Description  |
|                     | Zehra Beg  | Huda Upper School     |   |
| akariya Alokk       | Clean Living   |                       |   |
| 1 EPA               | Environmental Protection Agency                        |                       | Congratulatory Letter of encourgement   |
| Place Code          | Organization Name                                      |                       | Organization Description  |
|                     | Connie Atkisson  | Noble Elementary-     | < to 5  |
| ai Onna Currie      | Better Water = Better Crops: Tru                       | th or Fiction?        |   |
|                     |  |                       | USMI02  |
|                     |  |                       | https://www.societyforscience.org/jic/for-nominees/ and use password of                               |
| I JIC               | mermo risher scientific-julifor illifio                | vators Challenge      | Innovators Challenge. Register online at:   |
| Place Code<br>1 JIC | Organization Name Thermo Fisher Scientific-Junior Inno | vators Challenge      | Organization Description  Student is nominated for competition in the Thermo Fisher Scientific-Junior |
| Diago Codo          | Zehra Beg  | Huda Upper School     |   |
| ahro Muhammadieva   | Eww, That's Gross!                                     | Huda Hanar Cahaal     |   |
|                     |  |                       |   |
| 1 EPA               | Environmental Protection Agency                        |                       | Congratulatory Letter of encourgement   |
| Place Code          | Organization Name                                      | ,                     | Organization Description  |
|                     | Connie Atkisson  | Noble Elementary-k    | ⟨to 5   |
| a Niya Currie       | And the Winner Is                                      |                       |   |
| ertificateName      | Teacher  | School                |   |

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|              |         | Title   |  |  |  |  |
|--------------|---------|---|--|--|--|--|
| CertificateN | lame    | Teacher                                       | School   |  |  |  |
| 2            | ASA     | American Statistical Association (AS Chapters | A), Michigan   | \$50 Award of Merit  |  |  |
| 4            | STATE   | MSEF  |  | Fourth Place Award of \$50 Cash Award  |  |  |
| Zia Airea Cı | urrie   | A Drive for Efficiency: Effective             | A Drive for Efficiency: Effective Alternative Energy Vehicles-Solar or Hydro P |  |  |  |
|              |         | Connie Atkisson                               | Noble Elementary   | y-Middle School  |  |  |
| Place        | Code    | Organization Name                             |  | Organization Description   |  |  |
| 1            | EPA     | <b>Environmental Protection Agency</b>        |  | Congratulatory Letter of encourgement  |  |  |
| 1            | JIC     | Thermo Fisher Scientific-Junior Inno          | ovators Challenge  | Student is nominated for competition in the Thermo Fisher Scientific-Junior Innovators Challenge. Register online at: https://www.societyforscience.org/jic/for-nominees/ and use password of USMI02 |  |  |
| Zoe Perez F  | Ramirez | What fruits ruin gelatin                      |  |  |  |  |
|              |         | William Tucker                                | Holy Redeemer C  | atholic Grade School   |  |  |
| Place        | Code    | Organization Name                             |  | Organization Description   |  |  |
| 1            | EPA     | Environmental Protection Agency               |  | Congratulatory Letter of encourgement  |  |  |

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