2022-Professional Awards by Student

Certificate	Name	Title Teacher	School
Aasiya Zia	1	Boba-Fied! A Revelation	
		Rutabah Bhutta	Tawheed Center School
Place	Code	Organization Name	Organization Description
1	BROAD1	Broadcom Masters Competition	Student is nominated for competition in the Broadcom Masters Competition
	Algazzaly with izam and Your		
		Garallah Muthala	Oakland International Academy HS
Place	Code	Organization Name	Organization Description
1	EPA	Environmental Protection Agency	Congratulatory Letter of encourgement
Abdurrah	man Ahmed	Beverage Face-Off	
		Rutabah Bhutta	Tawheed Center School
Place	Code	Organization Name	Organization Description
1	BROAD1	Broadcom Masters Competition	Student is nominated for competition in the Broadcom Masters Competition
			Stadent is nonlinated for competition in the broadcom wasters competition
Abhimany	yu Kommaredo	·	Stadent is nonlinated for competition in the Broadcom Wasters competition
Abhimany	yu Kommaredo	·	South Arbor Charter Academy
	yu Kommaredo Code	di Mold is not welcome Ramya Kommareddi	South Arbor Charter Academy
		di Mold is not welcome	
Place	Code UM-SXi	di Mold is not welcome Ramya Kommareddi Organization Name	South Arbor Charter Academy Organization Description
Place 1J	Code UM-SXi	di Mold is not welcome Ramya Kommareddi Organization Name Univ of Mich Chapter of Sigma Xi	South Arbor Charter Academy Organization Description
Place 1J Adam Fod	Code UM-SXi	di Mold is not welcome Ramya Kommareddi Organization Name Univ of Mich Chapter of Sigma Xi Nature vs. machine	South Arbor Charter Academy Organization Description Certificate of award and cash award in the Junior Division

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CertificateName	Title Teacher S	chool		
Adrian Mejia	How does temperature affect thermal expansion?			
		t. Patrick Elementary-Whitelake		
Place Code	Organization Name	Organization Description		
3JR ASHRAE	Amercian Society of Heating, Refrigera Conditioning Engineers	ating and Air Book and Certificate		
Adrian Sanchez	Which Filtration Material Leads to the Best Drinking Water			
	Pamela Clark C	Oakland Christian School-MS		
Place Code	Organization Name	Organization Description		
1 BROAD1	Broadcom Masters Competition	Student is nominated for competition in the Broadcom Masters Competition		
1JR SHPE	Society of Hispanic Professional Engine	eers Certificate of Recognition & Small Gift		
Ahlayna Powell-swan	Milk into Plastic			
	Virginia Callaghan F	lilbert Middle School		
Place Code	Organization Name	Organization Description		
1 BROAD1	Broadcom Masters Competition	Student is nominated for competition in the Broadcom Masters Competition		
Ahmad Khuja	Cleaning Oil Spills			
	Talath Ansari C	rescent Academy International		
Place Code	Organization Name	Organization Description		
1 EPA	Environmental Protection Agency	Congratulatory Letter of encourgement		
1JR USNAVY	United States Navy	Letter of Congratulations, ONR Medallion, Naval Science Award Certificate		
	,			
Aidan Oakley	·	tween secondary STEM students and		
	Student anxiety: The difference be	tween secondary STEM students and Dearborn Center for Math, Science & Technology		
	Student anxiety: The difference be	·		
Aidan Oakley	Student anxiety: The difference be	Dearborn Center for Math, Science & Technology		
Aidan Oakley Place Code	Student anxiety: The difference beginning Dennifer Gorsline Dennifer Dennifer Gorsline Dennifer Dennif	Organization Description		
Aidan Oakley Place Code 1 APA	Student anxiety: The difference beginning Intermediate Description Name American Psychological Association Novel Implementation of Flow Sep	Organization Description Certificate of accomplishment		

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		Title	
Certificate	eName	Teacher	School
1	USMA	US Metric Association Award	Certificate
Aleena M	1alik	Make The Sea Great Again: Clea	aning Up Oil Spills
		Talath Ansari	Crescent Academy International
Place	Code	Organization Name	Organization Description
1	EPA	Environmental Protection Agency	Congratulatory Letter of encourgement
Alejandro	o Garita	3 Bananas 3 Different Places	
		Carol Smuk	Academy of the Americas-Middle School
Place	Code	Organization Name	Organization Description
1	BROAD1	Broadcom Masters Competition	Student is nominated for competition in the Broadcom Masters Competition
Alejandro	o Herrera	Solar Heating & Retention	
		Tracy Ortiz	Clippert Academy Middle School
Place	Code	Organization Name	Organization Description
1JR	ASHRAE	Amercian Society of Heating, Refrig Conditioning Engineers	gerating and Air Book and Certificate
1	BROAD1	Broadcom Masters Competition	Student is nominated for competition in the Broadcom Masters Competition
1	EPA	Environmental Protection Agency	Congratulatory Letter of encourgement
1JR	SHPE	Society of Hispanic Professional Eng	gineers Certificate of Recognition & Small Gift
Alejandro	o Orozco Lopez	Does Temperature Affect Magno	etism?
		Tracy Ortiz	Clippert Academy Middle School
Place	Code	Organization Name	Organization Description
1	BROAD1	Broadcom Masters Competition	Student is nominated for competition in the Broadcom Masters Competition
Alexa Dat	ulton	A Dose of Music	
		Pamela Clark	Oakland Christian School-MS
Place	Code	Organization Name	Organization Description
1	BROAD1	Broadcom Masters Competition	Student is nominated for competition in the Broadcom Masters Competition

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CertificateName		Title Teacher	School
Alfonso Ciarelli		What's the Best Angle?	
		Cynthia Schmitz	St. Patrick Elementary
Place	Code	Organization Name	Organization Description
1	BROAD1	Broadcom Masters Competition	Student is nominated for competition in the Broadcom Masters Competition
1JR	SPACEX	SpaceX	Awarded to a high quality project with application to SpaceX or aerospace more generally. Student demonstrates enthusiasm for the subject.
1JR	USNAVY	United States Navy	Letter of Congratulations, ONR Medallion, Naval Science Award Certificate
Ali Qoran		Soil-Plant Conductivity	
		Talath Ansari	Crescent Academy International
Place	Code	Organization Name	Organization Description
1	EPA	Environmental Protection Agency	Congratulatory Letter of encourgement
Alyson Da	i	Biodegradable Polyhydroxyalka	noates: A Solution to Reduce Plastic Pollution
		Joseph Case	Detroit Country Day 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.
1	BROAD1	Broadcom Masters Competition	Student is nominated for competition in the Broadcom Masters Competition
1	EPA	Environmental Protection Agency	Congratulatory Letter of encourgement
1JR	GLWA	Great Lakes Water Authority	\$100 visa gift card, Custom GLWA Trophy and a Certificate.
1	USAF	United States Air Force	Congratulatory Letter and certificate
1JR	USNAVY	United States Navy	Letter of Congratulations, ONR Medallion, Naval Science Award Certificate
Amal Moh	amed	Air Particles	
		Ibrahim El Shawabkeh	Universal Academy-HS
Place	Code	Organization Name	Organization Description
1	EPA	Environmental Protection Agency	Congratulatory Letter of encourgement

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CertificateName	Title Teacher	School				
Amna Khan	Temperature Ignites with an O	Temperature Ignites with an Oven!				
	Talath Ansari	Crescent Acad	emy International			
Place Code	Organization Name		Organization Description			
1 EPA	Environmental Protection Agency		Congratulatory Letter of encourgement			
Andrew Wagner	Hydrogen and Oxygen Gas Pro	duction from Wat	er for a Marine Engine			
	Mary Wagner	MSEF-Nouvel (Catholic Central			
Place Code	Organization Name		Organization Description			
HM ASA	American Statistical Association (A Chapters	ASA), Michigan	Certificate of Recognition			
3 STATE	MSEF		Third Place Award of \$75 Cash Award			
Angel Orozco	Which Type Of Faucet Aerator	Will Save The Mo	st Water?			
	Sheryl Evans	Clippert Acade	emy Middle School			
Place Code	Organization Name		Organization Description			
1 BROAD	1 Broadcom Masters Competition		Student is nominated for competition in the Broadcom Masters Competition			
1 EPA	Environmental Protection Agency		Congratulatory Letter of encourgement			
Angela Matta	Adolescents and Multilevel Ma	arketing: How Susc	ceptible Are They?			
	Jennifer Gorsline	Dearborn Cent	ter for Math, Science & Technology			
Place Code	Organization Name		Organization Description			
HM ASA	American Statistical Association (A Chapters	ASA), Michigan	Certificate of Recognition			
Anirudh Venkat	Exfiltrating data from an isolat	ted computer syst	rem			
	Andrew Collins	Huron HS				
Place Code	Organization Name		Organization Description			
1S UM-SX	Univ of Mich Chapter of Sigma Xi		Certificate of award and cash award in the Senior Division			
1SR USNAV	Y United States Navy		Letter of Congratulations, ONR Medallion, Naval Science Award Certificate, and \$50 gift card			

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CertificateName	Title Teacher	School	
Anna Blazic	Can Plants Help Reduce Soil I	rosion	
	Cynthia Schmitz	St. Patrick Elemen	ntary
Place Code	Organization Name		Organization Description
1 EPA	Environmental Protection Agend	У	Congratulatory Letter of encourgement
Annabelle Beaubien w Cainan Hanbury	vith Holographic Imaging of X-ray	S	
	David Egan	Larson Middle Sch	nool
Place Code	Organization Name		Organization Description
1 BROAD1	Broadcom Masters Competition		Student is nominated for competition in the Broadcom Masters Competition
Annabelle Ye	Dietary Impact on Memory T	Cells	
	Andrew Collins	Huron HS	
Place Code	Organization Name		Organization Description
1 BIOMED	Regeneron BioMedical Award		Award Certificate, special recognition, and \$500 award
GRAN GRND-S	Grand Award-Senior Division		Grand Award
1 INVITR	Society for In Vitro Biology		Certificate of Achievement
3 STATE	MSEF		Third Place Award of \$75 Cash Award
1S UM-SXi	Univ of Mich Chapter of Sigma X	i	Certificate of award and cash award in the Senior Division
1-ST USAID	US Agency for International Dev	elopment	Science Champion Award Certificate
Anthony Lopez	Sorbent Absorptivity- Which	is most Effective?	
	Tracy Ortiz	Clippert Academy	Middle School
Place Code	Organization Name		Organization Description
1 BROAD1	Broadcom Masters Competition		Student is nominated for competition in the Broadcom Masters Competition
Anusha Reddy	Gene Expression Data Analys	is of Kawasaki Disease	for Insight into MIS-C

Anusha Reddy	Gene Expression Data Ana	Gene Expression Data Analysis of Kawasaki Disease for Insight into MIS-C		
	Karen Lamb	Detroit Country Day Upper		
Place Code	Organization Name	Organization Description		
1 USAID	US Agency for International [Development Science Champion Award Certificate		

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CertificateName	Title Teacher	School	
Aren Shah with Luke D	indo An Examination of the Amount	of Artificial Food	Coloring in Popular Sports Dri
	Laura Luckins	Detroit Countr	y Day Upper
Place Code	Organization Name		Organization Description
1 SIWI	Stockholm Junior Water Prize (Stockholm Junior Water Prize (Stockh	ckholm)	Regional Award and recommendation to compete nationally
Arif Ahmed	Solar power or not? ~Nuclear E	nergy In The Sun	~
	Talath Ansari	Crescent Acad	emy International
Place Code	Organization Name		Organization Description
1 EPA	Environmental Protection Agency		Congratulatory Letter of encourgement
Armaan Dev	The Effects of Added fertilizers with Varying Temperature on Oxygen Solubility		
	Marc Drougel	Detroit Countr	y Day Upper
Place Code	Organization Name		Organization Description
1 EPA	Environmental Protection Agency		Congratulatory Letter of encourgement
1 NASA	NASA Earth System Science		Certificate of Recognition
Arnav Nikam	Development and Statistical Va	lidation of a Refir	ned CAPE Ratio Algorithm
	Marcia Lizzio	Salem High Sch	nool
Place Code	Organization Name		Organization Description
HM ASA	American Statistical Association (A Chapters	SA), Michigan	Certificate of Recognition
Ashrita Reddy	The Effect of Turmeric Capsules	on Antibacterial	Growth
	Joseph Case	Detroit Countr	y Day Middle School
Place Code	Organization Name		Organization Description
1 BROAD1	Broadcom Masters Competition		Student is nominated for competition in the Broadcom Masters Competition
Ashton Milner	Sausage Shenanigans?		
	Susan Adams	Gompers Elem	entary-Middle School
Place Code	Organization Name		Organization Description

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Student is nominated for competition in the Broadcom Masters Competition

1

BROAD1

Broadcom Masters Competition

Certificatel	Name	Title Teacher	School		
Ashwin Mahendran		Interpreting Deep Learning Models on Chest X-ray Images			
		Jonathan Jones	Dakota High Scho	pol	
Place	Code	Organization Name		Organization Description	
2	ASEIO	American Society of Engineers of	Indian Origin	Certificate, Book, Gift card	
1	UDM	University of Detroit Mercy		\$10,000 scholarship per year for a maximum of four years undergraduate tuition at University of Detroit Mercy, renewable	
Asim Handy		Analysis of Types of Spin, Spin	Rates, and Axes on t	the Movement of a Baseball	
		Erin Vettraino	Detroit Country [Day Upper	
Place	Code	Organization Name		Organization Description	
1	BATTLE	James T Battle Memorial Award		Special certificate and cash award of \$250 from the James T Battle Scholarship Fund	
1SR	USNAVY	United States Navy		Letter of Congratulations, ONR Medallion, Naval Science Award Certificate, and \$50 gift card	
Aydin Akh	ioon	Preeminent Polymers			
		Talath Ansari	Crescent Academ	ny International	
Place	Code	Organization Name		Organization Description	
1JR	ASMDET	ASM - Detroit Chapter		Certificate of accomplishment and complementary admission to/recognition at chapter dinner meeting.	
1	BROAD1	Broadcom Masters Competition		Student is nominated for competition in the Broadcom Masters Competition	
1	EPA	Environmental Protection Agency		Congratulatory Letter of encourgement	
1JR	SHPE	Society of Hispanic Professional E	ngineers	Certificate of Recognition & Small Gift	
Batule Hai	mka	Exploring the Potential Effects	of PFAS on Plant Gro	owth and Health	
		Jennifer Gorsline	Dearborn Center	for Math, Science & Technology	
Place	Code	Organization Name		Organization Description	
2	ASA	American Statistical Association (A	ASA), Michigan	\$50 Award of Merit	

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CertificateName	Title Teacher	School	
Benjamin Diemer	What a shocking discovery	У	
	Pamela Clark	Oakland Christia	n School-MS
Place Code	Organization Name		Organization Description
1 BROAD1	Broadcom Masters Competiti	ion	Student is nominated for competition in the Broadcom Masters Competition
1 NOAA	United States Department of Atmosphere	Commerce Oceans and	Certificate of Recognition
Brian Zhang	Mental Stress Detection in	n Social Media - A Machi	ne Learning Approach
	Gabriel Pak	Northville High S	School
Place Code	Organization Name		Organization Description
2 ASA	American Statistical Association Chapters	on (ASA), Michigan	\$50 Award of Merit
3 STATE	MSEF		Third Place Award of \$75 Cash Award
Brianhana Gavin	What Effect Do UV Rays H	ave on Yeast Colony Gro	owth?
	Kimberly Bonk	Schulze Academ	y for Technology & Arts
Place Code	Organization Name		Organization Description
1 BROAD1	Broadcom Masters Competiti	ion	Student is nominated for competition in the Broadcom Masters Competition
Brooklyn Garver	Breath Taking Science		
	Pamela Clark	Oakland Christia	n School-MS
Place Code	Organization Name		Organization Description
1 BROAD1	Broadcom Masters Competiti	ion	Student is nominated for competition in the Broadcom Masters Competition
Calvin Cline	Testing Turbidity		
	Kimberly Bonk	Schulze Academ	y for Technology & Arts
Place Code	Organization Name		Organization Description
1 BROAD1	Broadcom Masters Competiti	ion	Student is nominated for competition in the Broadcom Masters Competition

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Carter Koenigsknecht	Teacher The Relationship Between	School en Carbonation Le
Carter Roenigsknecht	Wendy Mayer	Roeper

ertificatei	Name	reactier	3011001	
Carter Koe	enigsknecht	The Relationship Between Car	bonation Levels and	d Different Sodas
		Wendy Mayer	Roeper Middle S	School
Place	Code	Organization Name		Organization Description
1	BROAD1	Broadcom Masters Competition		Student is nominated for competition in the Broadcom Masters Competition
Cash Papu	ga	What Heats Me Up and Cools	Me Down	
		Scott Brunner	University Ligge	tt-Elementary
Place	Code	Organization Name		Organization Description
3EL	ASHRAE	Amercian Society of Heating, Ref Conditioning Engineers	rigerating and Air	Book and Certificate
Catelynn E	Brown	Is There a Difference in Urban	River Water Quality	Between Michigan and Ohio R
		Connie Atkisson	Northwestern H	igh School
Place	Code	Organization Name		Organization Description
3-SR	AIRWAS	Air Waste Management Associat	ion	Certificate and \$100 third place award
1	AWG	Association of Women GeoScient	ists	Awards Certificate
1	EPA	Environmental Protection Agency	/	Congratulatory Letter of encourgement
3SR	GLWA	Great Lakes Water Authority		\$25 visa gift card, Custom GLWA Trophy and a Certificate.
1	SIWI	Stockholm Junior Water Prize (St	ockholm)	Regional Award and recommendation to compete nationally
Charlie Ch Agha	en with Dylan	The Final Solar Eclipse		
		Patricia Hanlan	Detroit Country	Day Upper
Place	Code	Organization Name		Organization Description
НМ	ASA	American Statistical Association (Chapters	ASA), Michigan	Certificate of Recognition
Christyonr	na Amos	Flooding, Flooding, and more	Flooding!	
		George Goff	Henry Ford High	School
Place	Code	Organization Name		Organization Description
1	EPA	Environmental Protection Agency	/	Congratulatory Letter of encourgement

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CertificateN	lame	Title Teacher	School	
Connor Ka	lkanis	A Novel Silver Bullet to Kill Cand	cer Cells	
		Lara Mcmillan	Detroit Country Day Upper	
Place	Code	Organization Name	Organization Description	
1	INVITR	Society for In Vitro Biology	Certificate of Achievement	
3	STATE	MSEF	Third Place Award of \$75 Cash Award	
Cristal Cue	llo	Cool Chem		
		Mark Duffy	Academy of the Americas-Middle School	
Place	Code	Organization Name	Organization Description	
1	BROAD1	Broadcom Masters Competition	Student is nominated for competition in the Broadcom Masters Competi	tion
Daisy Jurao	do	Melting ice		
		Mark Duffy	Academy of the Americas-Middle School	
Place	Code	Organization Name	Organization Description	
1	BROAD1	Broadcom Masters Competition	Student is nominated for competition in the Broadcom Masters Competition	tion
Darron Ale	xander	Social Justice on Water Quality		
		George Goff	Henry Ford High School	
Place	Code	Organization Name	Organization Description	
1	SIWI	Stockholm Junior Water Prize (Stoc	ckholm) Regional Award and recommendation to compete nationally	
Desmond (Cason	Oh No! GMO		
		Kimberly Bonk	Schulze Academy for Technology & Arts	
Place	Code	Organization Name	Organization Description	
1	BROAD1	Broadcom Masters Competition	Student is nominated for competition in the Broadcom Masters Competi	tion
Devarshi D	alal	Use of Artificial Intelligence for	Obtaining Optimal Wrist X-Rays	
		Rebecca Brewer	Troy High School	
Place	Code	Organization Name	Organization Description	

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Courtification	Nama	Title Teacher	Cabaal	
Certificate 1SR	GLCHPS	Great Lakes Chapter Health Phys	School sics 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	UDM	University of Detroit Mercy		\$10,000 scholarship per year for a maximum of four years undergraduate tuition at University of Detroit Mercy, renewable
Dillan Lau		Pneumonia Detection throug	sh Advanced Machine	e Learning
		Rami Baroodi	Detroit Country	Day Upper
Place	Code	Organization Name		Organization Description
НМ	ASA	American Statistical Association Chapters	(ASA), Michigan	Certificate of Recognition
3	ASEIO	American Society of Engineers o	f Indian Origin	Certificate
4	STATE	MSEF		Fourth Place Award of \$50 Cash Award
1	USAF	United States Air Force		Congratulatory Letter and certificate
1SR	USNAVY	United States Navy		Letter of Congratulations, ONR Medallion, Naval Science Award Certificate, and \$50 gift card
Diya Gehla	aut	Studying the effect of mutati	ng ɣ29 residue	in FX Gla-domain on clot formation
		Jackie Toepel	International Ac	ademy-East Campus
Place	Code	Organization Name		Organization Description
1	UDM	University of Detroit Mercy		\$10,000 scholarship per year for a maximum of four years undergraduate tuition at University of Detroit Mercy, renewable
Diya Rame	esh	Urine-Based Breast Cancer D	etection Using miRN/	A-Targeting Molecular Beacons
		Megan Phillips	International Aca	rademy
Place	Code	Organization Name		Organization Description
1SR	SHPE	Society of Hispanic Professional	Engineers	Certificate of Recognition & Small Gift
4	STATE	MSEF		Fourth Place Award of \$50 Cash Award
Diya Sheth	า	Working with WIFI		
,				
,		Heather Lechner	Plymouth Schola	ars Middle School

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CertificateN	Name	Title Teacher	School	
1	BROAD1	Broadcom Masters Competition		Student is nominated for competition in the Broadcom Masters Competition
Donald Liv	eoak	Schrödinger Bridges on Discrete	e Domains	
		Larry Dunlap	Allen Park Senior I	High
Place	Code	Organization Name		Organization Description
НМ	ASA	American Statistical Association (As Chapters	SA), Michigan	Certificate of Recognition
GRAN	GRND-S	Grand Award-Senior Division		Grand Award
1	ISEF	ISEF		SEFMD ISEF Finalist for 2022, May 8-13, 2022
1	MUALPH	Mu Alpha Theta		Certificate of Achievement
1	STATE	MSEF		First Place Award of \$250 Cash award
Dylan Levy	1	Which Brand of Bottled Water I	Most Positively Affec	ets Germination and Growth of
, ,		Connie Atkisson	Thirkell Middle Scl	
Place	Code	Organization Name		Organization Description
1	EPA	Environmental Protection Agency		Congratulatory Letter of encourgement
Eduardo G	onzalez	Multitasking: Brain drain or boo	ost efficiency	
		Sheryl Evans	Clippert Academy	Middle School
Place	Code	Organization Name		Organization Description
1	BROAD1	Broadcom Masters Competition		Student is nominated for competition in the Broadcom Masters Competiti
Ellie Dougl	as	Softball: A Game of Inches		
		Pamela Clark	Oakland Christian	School-MS
Place	Code	Organization Name		Organization Description
1	BROAD1	Broadcom Masters Competition		Student is nominated for competition in the Broadcom Masters Competition
Emmanuel	Angeles	Death rays: What Duration of U	ltraviolet Exposure k	Kills Bacteria
		Sheryl Evans	Clippert Academy	Middle School
Place	Code	Organization Name		Organization Description
1	BROAD1	Broadcom Masters Competition		Student is nominated for competition in the Broadcom Masters Competiti

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Certificate	lame	Title Teacher	School	
Entriel Wil		Top Plant! George Goff Organization Name	Henry Ford High Sc	hool Organization Description
1	AWG	Association of Women GeoScientists	S	Awards Certificate
Esmaa Sha	jrah	The Stroop Effect		
		Rutabah Bhutta	Tawheed Center Sc	hool
Place	Code	Organization Name		Organization Description
1	BROAD1	Broadcom Masters Competition		Student is nominated for competition in the Broadcom Masters Competition
Fatima Flo	res	Can Plants Mitigate Soil Erosion	?	
		Tracy Ortiz	Clippert Academy N	Aiddle School
Place	Code	Organization Name		Organization Description
1	BROAD1	Broadcom Masters Competition		Student is nominated for competition in the Broadcom Masters Competition
1	EPA	Environmental Protection Agency		Congratulatory Letter of encourgement
1JR	SHPE	Society of Hispanic Professional Eng	ineers	Certificate of Recognition & Small Gift
Glen Warr	en	Practical Gesture Recognition for	r Computer Control	
		Jennifer Gorsline	Dearborn Center fo	r Math, Science & Technology
Place	Code	Organization Name		Organization Description
GRAN	GRND-S	Grand Award-Senior Division		Grand Award
2	IEEE	IEEE Southeastern Michigan Section		Frameable Certificate
1	ISEF	ISEF		SEFMD ISEF Finalist for 2022, May 8-13, 2022
2	STATE	MSEF		Second Place Award of \$100 Cash Award
Grace Fow Dougherty Naeem	kes with Ana and Lourd	Are Women or Men Better At Dif	fferentiating Pattern	s?
		Marc Fazio	Detroit Country Day	y Upper
Place	Code	Organization Name		Organization Description

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Certificate	Name	Title Teacher	School	
1	APA	American Psychological Association	3011001	Certificate of accomplishment
Grace Zha	ang	Evaluating Accented Speech Reco	ognition Using Mach	ine Learning Models
		Allwyn Cole	Cranbrook Kingswo	od Upper School
Place	Code	Organization Name		Organization Description
2	TOYOTA	Toyota R&D Innovation and Mobility	1	Personalized certificate, invite to a Toyota R&D Meeting, and consideration for internship at Toyota, including \$50 cash award
Guadalup	e Villeda	The Effect of Age and Gender on	Hearing Sounds of D	Different Pitches
		Tracy Ortiz	Clippert Academy N	Aiddle School
Place	Code	Organization Name		Organization Description
1	BROAD1	Broadcom Masters Competition		Student is nominated for competition in the Broadcom Masters Competition
Hamzah A	Alhydary	Ripe Eye		
		Rutabah Bhutta	Tawheed Center Sc	hool
Place	Code	Organization Name		Organization Description
1	BROAD1	Broadcom Masters Competition		Student is nominated for competition in the Broadcom Masters Competition
Hana Huse	eini	Electrified		
Hana Hus	eini	Electrified Zehra Beg	Huda Upper School	
	eini Code		Huda Upper School	Organization Description
		Zehra Beg	Huda Upper School	Organization Description Student is nominated for competition in the Broadcom Masters Competition
Place 1	Code BROAD1	Zehra Beg Organization Name		Student is nominated for competition in the Broadcom Masters Competition
Place 1	Code BROAD1	Zehra Beg Organization Name Broadcom Masters Competition		Student is nominated for competition in the Broadcom Masters Competition
Place 1 Harish Na	Code BROAD1	Zehra Beg Organization Name Broadcom Masters Competition Optimal Design & Development of	of a Photovoltaic Pan	Student is nominated for competition in the Broadcom Masters Competition
Place 1 Harish Na	Code BROAD1 arayan	Zehra Beg Organization Name Broadcom Masters Competition Optimal Design & Development of Marcia Lizzio	of a Photovoltaic Pan Salem High School	Student is nominated for competition in the Broadcom Masters Competition
Place 1 Harish Na Place	Code BROAD1 arayan Code	Zehra Beg Organization Name Broadcom Masters Competition Optimal Design & Development of Marcia Lizzio Organization Name American Statistical Association (ASA)	of a Photovoltaic Pan Salem High School A), Michigan	Student is nominated for competition in the Broadcom Masters Competition nel Organization Description

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Certificatel	Name	Title Teacher	School
Hassan Alı	roaini	What happens to different struc	ctures during earthquakes
		Talath Ansari	Crescent Academy International
Place	Code	Organization Name	Organization Description
1	EPA	Environmental Protection Agency	Congratulatory Letter of encourgement
Himani Ya	rlagadda	Reducing Allergenic Potential of	Proteins with Tannic Acid
		Laura Luckins	Detroit Country Day Upper
Place	Code	Organization Name	Organization Description
1-ST	INVITR	Society for In Vitro Biology	Certificate of Achievement
I Yonnie P	rather	Does Watering Raphanus sativu	is Plants with Polluted Water Negatively Affect Th
		Connie Atkisson	Thirkell Middle School
Place	Code	Organization Name	Organization Description
1	BROAD1	Broadcom Masters Competition	Student is nominated for competition in the Broadcom Masters Competition
Ibrahim Sh	noeb	Goldilocks Debunked	
		Rutabah Bhutta	Tawheed Center School
Place	Code	Organization Name	Organization Description
1	BROAD1	Broadcom Masters Competition	Student is nominated for competition in the Broadcom Masters Competition
	n with Maira	Baig The Sun's Dark Side	
and Eman	Zaidi	Zehra Beg	Huda Upper School
Place	Code	Organization Name	Organization Description
1	BROAD1	Broadcom Masters Competition	Student is nominated for competition in the Broadcom Masters Competition
Insha Baig		Oh I'm soaking wet	
		Zehra Beg	Huda Upper School
Place	Code	Organization Name	Organization Description
1	EPA	Environmental Protection Agency	Congratulatory Letter of encourgement
1	EPA	Environmental Protection Agency	Congratulatory Letter of encourgement

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	Title	
CertificateName	Teacher	School
Isabella Cook	Covid-Driven Reliance on Digital	Communication and Teens
	John Dougherty	Detroit Country Day Upper
Place Code	Organization Name	Organization Description
1-ST APA	American Psychological Association	Certificate of accomplishment
4 STATE	MSEF	Fourth Place Award of \$50 Cash Award
Ivan Enriquez	What is Normal Body Temperatu	ire?
	Tracy Ortiz	Clippert Academy Middle School
Place Code	Organization Name	Organization Description
1 BROAD1	Broadcom Masters Competition	Student is nominated for competition in the Broadcom Masters Competition
Ivee Jones	What's the best de-icer for your	environment?
	Sharon Holloway	Davis Aerospace Technical High School
Place Code	Organization Name	Organization Description
1 EPA	Environmental Protection Agency	Congratulatory Letter of encourgement
Jabin Sara	Air pollution	
	Anjana Kapoor	Davison Elementary-Middle School
Place Code	Organization Name	Organization Description
1 EPA	Environmental Protection Agency	Congratulatory Letter of encourgement
Jad Habhab	Statistical Nature of Modern Mu	sic
	Jennifer Gorsline	Dearborn Center for Math, Science & Technology
Place Code	Organization Name	Organization Description
2 ASA	American Statistical Association (AS Chapters	A), Michigan \$50 Award of Merit
1 MUALPH	Mu Alpha Theta	Certificate of Achievement
Jannathul Rafa	What Makes Ice Melt The Fastes	t?
	Anjana Kapoor	Davison Elementary-Middle School
		Organization Description

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Certificate 1	Name BROAD1	Title Teacher Broadcom Masters Competition	School	Student is nominated for competition in the Broadcom Masters Competition
Jarell Mur	rray	Flash		
		Barbara Shaw	A. L. Holmes Elem	entary-Middle School
Place	Code	Organization Name		Organization Description
1	BROAD1	Broadcom Masters Competition		Student is nominated for competition in the Broadcom Masters Competition
Jayden W	alker	How Viscous!		
		Leanne Peebles	Foreign Language	Immerson and Cultural Studies
Place	Code	Organization Name		Organization Description
1	BROAD1	Broadcom Masters Competition		Student is nominated for competition in the Broadcom Masters Competition
Jaylynn H	oosier	Tummy Troubles		
		Susan Adams	Gompers Element	tary-Middle School
Place	Code	Organization Name		Organization Description
1	BROAD1	Broadcom Masters Competition		Student is nominated for competition in the Broadcom Masters Competition
	ridass with Manohar-redd Iswin Raja	Development/Testing of DIY T	ribometer to identify	Sustainable Lubricant Oil
		Jessica Hughes	Baker Middle Scho	ool
Place	Code	Organization Name		Organization Description
1	BCODE	Broadcom Foundation-Coding 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
Jennifer R	Ramirez	A healthy smile is a beautiful s	smile.	
		Carol Smuk	Academy of the A	mericas-Middle School
Place	Code	Organization Name		Organization Description

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Broadcom Masters Competition

1

BROAD1

Student is nominated for competition in the Broadcom Masters Competition

CertificateNa	ame	Title Teacher	School	
Jesus Ayala		How Loud is too Loud? The Com	nparison of Sound Le	evels in Different Locations
		Tracy Ortiz	Clippert Academy	Middle School
Place C	Code	Organization Name		Organization Description
1	BROAD1	Broadcom Masters Competition		Student is nominated for competition in the Broadcom Masters Competition
Jett Miller		The Effect of Fracking on Therm	al Conductivity and	Seismic Wave Transmission
		Matthew Miller	MSEF-Saginaw Ar	ts and Academy
Place C	Code	Organization Name		Organization Description
НМ	ASA	American Statistical Association (As Chapters	SA), Michigan	Certificate of Recognition
4	STATE	MSEF		Fourth Place Award of \$50 Cash Award
Jiawei Chen		Robotic Tuna Fish and Study of	Improving Underwa	ter Locomotion
		Stephanie Kokoszka	Cranbrook Kingsw	vood Upper School
Place C	Code	Organization Name		Organization Description
1	AMS	American Meteorological Society		Certificate of outstanding achievement
1ST	NGS	National Geographic Society		\$100 award and a certificate
3	STATE	MSEF		Third Place Award of \$75 Cash Award
1SR	USNAVY	United States Navy		Letter of Congratulations, ONR Medallion, Naval Science Award Certificate, and \$50 gift card
Jimmy Asma	ar	Sun Impacting a Plants Growth		
		Vanessa Mallory	St. Fabian	
Place C	Code	Organization Name		Organization Description
1	BROAD1	Broadcom Masters Competition		Student is nominated for competition in the Broadcom Masters Competition
Joshua Asirv Jason Asirva		Al Detects Covid and Pneumoni	a	
		David Egan	Larson Middle Sch	nool
Place C	Code	Organization Name		Organization Description
1	BROAD1	Broadcom Masters Competition		Student is nominated for competition in the Broadcom Masters Competition

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CertificateN	lame	Teacher	School	
1JR	SHPE	Society of Hispanic Professional Eng	gineers	Certificate of Recognition & Small Gift
Josiah Arno	old	Germ Attack		
		Barbara Shaw	A. L. Holmes Eleme	entary-Middle School
Place	Code	Organization Name		Organization Description
1	BROAD1	Broadcom Masters Competition		Student is nominated for competition in the Broadcom Masters Competition
Josiah Jung	gkuntz	The Effect of Wing Design on Fig	hter Aircraft Perforn	nance
		Heather Duff	Canton High Schoo	I
Place	Code	Organization Name		Organization Description
1	FPC	Fino Plane Co		Orientation/instructional flight down the Detroit River, over the Ambassador Bridge, and back to Pontiac
Josue Vale	ncia	The Effects of Hydrogen Peroxid	e on Plant Cuttings a	nd Seed Germination
		Tracy Ortiz	Clippert Academy I	Middle School
Place	Code	Organization Name		Organization Description
1	BROAD1	Broadcom Masters Competition		Student is nominated for competition in the Broadcom Masters Competition
GRAN	GRND-J	Grand Award-Junior Division		Grand Award
1	JRISEF	Broadcom International Delegate to) ISEF	Outstanding Project from the Junior Division. Student selected to attend ISEF 2022 for Broadcom Program as part of the Broadcom International Delegates.
Judy Bai		Predicting Candidate Biomarker	s for COVID-19 and L	eukemia Cancer in Children
		Laura Hannaford	Clague MS	
Place	Code	Organization Name		Organization Description
1	BROAD1	Broadcom Masters Competition		Student is nominated for competition in the Broadcom Masters Competition
1	RISING	Broadcom Rising Star		Broadcom RISING STAR - Outstanding Project from the 2021 Broadcom MASTERS Competition. Student selected to attend ISEF 2022 for Broadcom Program
1J	UM-SXi	Univ of Mich Chapter of Sigma Xi		Certificate of award and cash award in the Junior Division

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CertificateName	Title Teacher	School
Kaleb Mclaurin with Brown	Daion To Infinity and Beyond!	
BIOWII	Susan Adams	Gompers Elementary-Middle School
Place Code	Organization Name	Organization Description
1 BROAD1		Student is nominated for competition in the Broadcom Masters Competition
Kameeyla Camak	Slimey Likes It!	
	Kimberly Bonk	Schulze Academy for Technology & Arts
Place Code	Organization Name	Organization Description
1 BROAD1	Broadcom Masters Competition	Student is nominated for competition in the Broadcom Masters Competition
Kareem Shehada	Cover It Up!	
	Zehra Beg	Huda Upper School
Place Code	Organization Name	Organization Description
1 EPA	Environmental Protection Agency	Congratulatory Letter of encourgement
Keerthana Danaseka	ran Identification of Novel Therape	utic Biomarkers & siRNA probes for Glioblastoma
	Gabriel Pak	Northville High School
Place Code	Organization Name	Organization Description
1SR USNAVY	United States Navy	Letter of Congratulations, ONR Medallion, Naval Science Award Certificate, and \$50 gift card
Keira Courtney	The Clean Water Project	
	Pamela Clark	Oakland Christian School-MS
Place Code	Organization Name	Organization Description
2-JR AIRWAS	Air Waste Management Association	on Certificate and \$150 Second place award
1 BROAD1	Broadcom Masters Competition	Student is nominated for competition in the Broadcom Masters Competition

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Congratulatory Letter of encourgement

Letter of Congratulations, ONR Medallion, Naval Science Award Certificate

EPA

USNAVY

1

1JR

Environmental Protection Agency

United States Navy

CertificateName	Title Teacher Sch	hool
Keira Hampton	Seebeck Effect	
	•	hulze Academy for Technology & Arts
Place Code	Organization Name	Organization Description
1 BROAD1	Broadcom Masters Competition	Student is nominated for competition in the Broadcom Masters Competition
Kiera Washington	Daphnia magna in Surface Runoffs	
	Sharon Holloway Da	vis Aerospace Technical High School
Place Code	Organization Name	Organization Description
GRAN GRND-S	Grand Award-Senior Division	Grand Award
1 ISEF	ISEF	SEFMD ISEF Finalist for 2022, May 8-13, 2022
1 NGS	National Geographic Society	\$100 award and a certificate
3 STATE	MSEF	Third Place Award of \$75 Cash Award
Kira Collins	Frictional Forte	
	Steve Armstrong Pio	oneer HS
Place Code	Organization Name	Organization Description
HM ASA	American Statistical Association (ASA), N Chapters	Michigan Certificate of Recognition
1S UM-SXi	Univ of Mich Chapter of Sigma Xi	Certificate of award and cash award in the Senior Division
Kirsten Littleton	Snow Water Verses Tap Water	
	Latrisha Burrell Pal	Imer Park Preparatory Academy
Place Code	Organization Name	Organization Description
1 BROAD1	Broadcom Masters Competition	Student is nominated for competition in the Broadcom Masters Competition
Kunwoo Kim	Evaluation of Plastic Materials for Fo	potball Helmet Facemask
	Harry Fried De	etroit Country Day Upper
Place Code	Organization Name	Organization Description
1SR ASMDET	ASM - Detroit Chapter	Certificate of accomplishment and complementary admission to/recognitic at chapter dinner meeting.

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		Title		
CertificateN	lame	Teacher	School	
1	ASM-ED	ASM Materials Education Foundat	ion Award ribbon and a certificate	
1-ST	USMA	US Metric Association Award	Certificate	
1-ST	USNAVY	United States Navy	Letter of Congratulations, ONR Medallion, Naval Science Award Certi and \$75 gift card	ficate,
Kush Parikh Mathew	n with Timot	hy COVision: CNN for Classificatio	n of COVID-19 and Non-Viral Pneumonia Using CTs	
		Rebecca Brewer	Troy High School	
Place (Code	Organization Name	Organization Description	
2	ASA	American Statistical Association (A Chapters	ASA), Michigan \$50 Award of Merit	
GRAN	GRND-S	Grand Award-Senior Division	Grand Award	
1-ST	ISEF	ISEF	MSEF ISEF Finalist for 2022, May 8-13, 2022	
1	MUALPH	Mu Alpha Theta	Certificate of Achievement	
0	STATE	MSEF	Grand Award - MSEF Student is invited to participate in the Regenero International Science & Engineering Fair, plus \$250 Cash Award	on
Lanya King		Filtering water		
, ,		Virginia Callaghan	Hilbert Middle School	
Place (Code	Organization Name	Organization Description	
1	EPA	Environmental Protection Agency	Congratulatory Letter of encourgement	
Layla Alsha	rif	The Effect of fertilizer on plants	5	
		Talath Ansari	Crescent Academy International	
Place (Code	Organization Name	Organization Description	
1	EPA	Environmental Protection Agency	Congratulatory Letter of encourgement	
Leanna Bai	g	Plant vs. Soil: The Solution for S	Soil Erosion	
		Talath Ansari	Crescent Academy International	
Place (Code	Organization Name	Organization Description	
1	BROAD1	Broadcom Masters Competition	Student is nominated for competition in the Broadcom Masters Com	petitio

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CertificateN	lame	Title Teacher	School
Leeanne Ka	abbani	Egg-alicious	
		Zehra Beg	Huda Upper School
Place	Code	Organization Name	Organization Description
1	BROAD1	Broadcom Masters Competition	Student is nominated for competition in the Broadcom Masters Competition
Logan John	ison	Miracle Grow Potting Mix versus	Organic Potting Soil Mix
		Kendra White	DPSCD Virtual School-Elementary
Place	Code	Organization Name	Organization Description
GRAN	GRND-E	Grand Award-Elementary Division	Grand Award-Top Project
Lucas Jraicl	ne	The Invisible Force in Sports	
		Caitlin OCconnell	Detroit Catholic Central High
Place	Code	Organization Name	Organization Description
1	EPA	Environmental Protection Agency	Congratulatory Letter of encourgement
Madisyn Er	vin	Stress balls	
		Virginia Callaghan	Hilbert Middle School
Place	Code	Organization Name	Organization Description
ALT	ASM-ED	ASM Materials Education Foundation	
Maja Uzieb	olo	A Comparison Of Rock Salt Versi	us Pet-Safe De-Icers on Plant Growth
		Marc Fazio	Detroit Country Day Upper
Place	Code	Organization Name	Organization Description
1	AMS	American Meteorological Society	Certificate of outstanding achievement
2	EMA	Environmental Management Associ	ation Second place scholarship award on behalf of the Environmental Management Association, certificate and an award of \$750
1	NASA	NASA Earth System Science	Certificate of Recognition
1SR	USNAVY	United States Navy	Letter of Congratulations, ONR Medallion, Naval Science Award Certificate, and \$50 gift card

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CertificateN	Name	Title Teacher	School	
Mantsha R	ani	Zip it, Lock it, Rocket in Your	Pocket	
		Talath Ansari	Crescent Acade	emy International
Place	Code	Organization Name		Organization Description
1	BROAD1	Broadcom Masters Competition		Student is nominated for competition in the Broadcom Masters Competition
Marcellus	Mccalebb	Germination Station		
		Barbara Shaw	A. L. Holmes Ele	ementary-Middle School
Place	Code	Organization Name		Organization Description
1	BROAD1	Broadcom Masters Competition		Student is nominated for competition in the Broadcom Masters Competition
1	JRISEF	Broadcom International Delegat	e to ISEF	Outstanding Project from the Junior Division. Student selected to attend ISEF 2022 for Broadcom Program as part of the Broadcom International Delegates.
Margaret \	/ang	Engineering Compositionally	Uniform Whole-Cell	Biocatalyst for Biofuel
		Stephanie Kokoszka	Cranbrook King	swood Upper School
Place	0 1			
Flace	Code	Organization Name		Organization Description
HM	ASA	Organization Name American Statistical Association Chapters	(ASA), Michigan	Organization Description Certificate of Recognition
НМ		American Statistical Association	(ASA), Michigan	
НМ	ASA	American Statistical Association Chapters	(ASA), Michigan	Certificate of Recognition
HM GRAN	ASA GRND-S	American Statistical Association Chapters Grand Award-Senior Division	(ASA), Michigan	Certificate of Recognition Grand Award
HM GRAN 1	ASA GRND-S ISEF	American Statistical Association Chapters Grand Award-Senior Division ISEF	(ASA), Michigan	Certificate of Recognition Grand Award SEFMD ISEF Finalist for 2022, May 8-13, 2022
HM GRAN 1 1	ASA GRND-S ISEF STATE USMA	American Statistical Association Chapters Grand Award-Senior Division ISEF MSEF		Certificate of Recognition Grand Award SEFMD ISEF Finalist for 2022, May 8-13, 2022 First Place Award of \$250 Cash award
HM GRAN 1 1	ASA GRND-S ISEF STATE USMA	American Statistical Association Chapters Grand Award-Senior Division ISEF MSEF US Metric Association Award	ne best?	Certificate of Recognition Grand Award SEFMD ISEF Finalist for 2022, May 8-13, 2022 First Place Award of \$250 Cash award
HM GRAN 1 1	ASA GRND-S ISEF STATE USMA	American Statistical Association Chapters Grand Award-Senior Division ISEF MSEF US Metric Association Award What paper towel brand is the	ne best?	Certificate of Recognition Grand Award SEFMD ISEF Finalist for 2022, May 8-13, 2022 First Place Award of \$250 Cash award Certificate

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CertificateName	Title Teacher	School
Maricarmen Lopez	The Efficiency of Saltwater Bat	teries
	Tracy Ortiz	Clippert Academy Middle School
Place Code	Organization Name	Organization Description
1 BROAD1	Broadcom Masters Competition	Student is nominated for competition in the Broadcom Masters Competition
Maryam Ahmed	Max the Mask	
	Rutabah Bhutta	Tawheed Center School
Place Code	Organization Name	Organization Description
1 BROAD1	Broadcom Masters Competition	Student is nominated for competition in the Broadcom Masters Competition
Maryam Mohammed	Natural Fertilizer V.S. Chemica	l Fertilizer
	Talath Ansari	Crescent Academy International
Place Code	Organization Name	Organization Description
1 BROAD1	Broadcom Masters Competition	Student is nominated for competition in the Broadcom Masters Competitio
Micah Johns	Will a plant react to Jazz or Pop	p Music
	Carol Smuk	Academy of the Americas-Middle School
Place Code	Organization Name	Organization Description
1 BROAD1	Broadcom Masters Competition	Student is nominated for competition in the Broadcom Masters Competition
Michelle Hua	Consistency-based Self-Superv	rised Neural Network for 3D Motion Reconstruction
	Stephanie Kokoszka	Cranbrook Kingswood Upper School
Place Code	Organization Name	Organization Description
GRAN GRND-S	Grand Award-Senior Division	Grand Award
1 IEEE	IEEE Southeastern Michigan Section	on Frameable Certificate, \$100 cash award
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 Regeneron International Science & Engineering Fair, plus \$250 Cash Award
1 USAF	United States Air Force	Congratulatory Letter and certificate

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Mikul Sara	avanan	Novel Multipurpose Air Hand	dling Robot with Al-Base	ed Anomaly Detection
		Stephanie Kokoszka	Cranbrook Kingsw	ood Upper School
Place	Code	Organization Name		Organization Description
1-ST	AMS	American Meteorological Societ	у	Certificate of outstanding achievement
НМ	ASA	American Statistical Association Chapters	(ASA), Michigan	Certificate of Recognition
1	ASEIO	American Society of Engineers o	f Indian Origin	Certificate, Book, Gift Card
2	IEEE	IEEE Southeastern Michigan Sec	tion	Frameable Certificate
1	ISEF	ISEF		SEFMD ISEF Finalist for 2022, May 8-13, 2022
2	STATE	MSEF		Second Place Award of \$100 Cash Award
1	TOYOTA	Toyota R&D Innovation and Mol	bility	Personalized certificate, invite to a Toyota R&D Meeting, and consideration for internship at Toyota, including \$100 cash award
Min Dai		Water Pump Remote Contro	I	
Min Dai		Water Pump Remote Contro Rebecca Brewer	l Troy High School	
	Code	•		Organization Description
	Code EPA	Rebecca Brewer	Troy High School	Organization Description Congratulatory Letter of encourgement
Place		Rebecca Brewer Organization Name	Troy High School	
Place 1 2	EPA IEEE	Rebecca Brewer Organization Name Environmental Protection Agence	Troy High School cy tion	Congratulatory Letter of encourgement Frameable Certificate
Place 1	EPA IEEE	Rebecca Brewer Organization Name Environmental Protection Agence IEEE Southeastern Michigan Sec	Troy High School Troy High School Ty Tion Iution to Water Pollution	Congratulatory Letter of encourgement Frameable Certificate
Place 1 2 Min Gi Ch	EPA IEEE	Rebecca Brewer Organization Name Environmental Protection Agence IEEE Southeastern Michigan Secons	Troy High School Troy High School Ty Tion Iution to Water Pollution	Congratulatory Letter of encourgement Frameable Certificate on Using Protein Bubbles
Place 1 2 Min Gi Ch	EPA IEEE Jun Code	Rebecca Brewer Organization Name Environmental Protection Agence IEEE Southeastern Michigan Seconstands on the Eco-Friendly Sonstephanie Kokoszka	Troy High School Troy High School	Congratulatory Letter of encourgement Frameable Certificate on Using Protein Bubbles yood Upper School
Place 1 2 Min Gi Ch	EPA IEEE un Code	Rebecca Brewer Organization Name Environmental Protection Agence IEEE Southeastern Michigan Sec Study on the Eco-Friendly So Stephanie Kokoszka Organization Name	Troy High School Cy tion lution to Water Pollutio Cranbrook Kingsw	Congratulatory Letter of encourgement Frameable Certificate on Using Protein Bubbles rood Upper School Organization Description
Place 1 2 Min Gi Ch Place 2-SR	EPA IEEE Jun Code AIRWAS	Rebecca Brewer Organization Name Environmental Protection Agence IEEE Southeastern Michigan Sec Study on the Eco-Friendly So Stephanie Kokoszka Organization Name Air Waste Management Associa	Troy High School Cy tion lution to Water Pollutio Cranbrook Kingsw	Congratulatory Letter of encourgement Frameable Certificate On Using Protein Bubbles Good Upper School Organization Description Certificate and \$200 second place award

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CertificateName	Title Teache	er	School	
Mohammad Kiy	rani The Ef	fect of Insulation on Wa	ater	
	Talath	Ansari	Crescent Academy	International
Place Code	Organizati	on Name		Organization Description
3JR ASF		Society of Heating, Refi	rigerating and Air	Book and Certificate
Moiyana Bell	Which	Water Will Produce the	e Healthiest Raphanus s	sativus Plants: Bottled, Tap,
	Conni	e Atkisson	Thirkell Middle Sch	ool
Place Code	e Organizati	on Name		Organization Description
1 BRC	DAD1 Broadcon	n Masters Competition		Student is nominated for competition in the Broadcom Masters Competition
1JR USN	NAVY United St	ates Navy		Letter of Congratulations, ONR Medallion, Naval Science Award Certificate
Molly Rudnick	Googl	e or Bust! How Many M	inutes of My Life Have	I Lost?
	Micha	el Bair	St. Hugo of the Hill	s - Junior(6-8)
Place Code	Organizati	on Name		Organization Description
1 BRC	DAD1 Broadcon	n Masters Competition		Student is nominated for competition in the Broadcom Masters Competition
Moumita Ray	Leave	s, Green, Clean		
	Anjan	a Kapoor	Davison Elementar	y-Middle School
Place Code	e Organizati	on Name		Organization Description
1 BRC	DAD1 Broadcon	n Masters Competition		Student is nominated for competition in the Broadcom Masters Competition
Mounika Katta	Assoc	ation of Vaginal Genera	With Treatment Outco	omes for Bacterial Vaginosis
	Karin	Nelson	Northville High Sch	ool
Place Code	Organizati	on Name		Organization Description
1 UDI	M Universit	of Detroit Mercy		\$10,000 scholarship per year for a maximum of four years undergraduate tuition at University of Detroit Mercy, renewable
Mustafa Alam	Fintas	tic Flying!		
	Zehra	Beg	Huda Upper Schoo	
Place Code	Organizati	on Name		Organization Description

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Certificate 1	eName BROAD1	Title Teacher Broadcom Masters Competition	School	Student is nominated for competition in the Broadcom Masters Competition
Myron Ha	arris	Which type of apple would mo	old faster?	
		Kimberly Finley	Bates Academy	
Place	Code	Organization Name		Organization Description
1	BROAD1	Broadcom Masters Competition		Student is nominated for competition in the Broadcom Masters Competition
Nandita D	Das	What Makes Ice Melt Faster?		
		Anjana Kapoor	Davison Element	ary-Middle School
Place	Code	Organization Name		Organization Description
1	BROAD1	Broadcom Masters Competition		Student is nominated for competition in the Broadcom Masters Competition
Natalie Ja	ackson	Do Cloud Shadows Affect Surfa	ce Temperatures or	n Earth?
		Connie Atkisson	Thirkell Middle S	chool
Place	Code	Organization Name		Organization Description
1	BROAD1	Broadcom Masters Competition		Student is nominated for competition in the Broadcom Masters Competition
1	EPA	Environmental Protection Agency		Congratulatory Letter of encourgement
Neha Part Armita M	thasarathy wi arpu	th Effectiveness of Glycerine to Pr	rotect Roads from Po	otholes
		Jackie Toepel	International Aca	demy-East Campus
Place	Code	Organization Name		Organization Description
2SR	ASMDET	ASM - Detroit Chapter		Certificate of accomplishment and complementary admission to/recognition at chapter dinner meeting.
1	ASM-ED	ASM Materials Education Foundat	ion	Award ribbon and a certificate
Nicholas I	Frieler	The Use of Collision-Induced Di	issociation in Differe	entiating Isomers
		Laura Luckins	Detroit Country [Day Upper
Place	Code	Organization Name		Organization Description
4	STATE	MSEF		Fourth Place Award of \$50 Cash Award
1	YALE	Yale Science & Engineering Associa	ation, Inc.	Certificate and acceptance form of award

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Certificate	Name	Title Teacher	School	
Niko Willi	ams	Road Conditions!		
		George Goff	Henry Ford High S	chool
Place	Code	Organization Name		Organization Description
3SR	ASMDET	ASM - Detroit Chapter		Certificate of accomplishment and complementary admission to/recognition at chapter dinner meeting.
1	ASM-ED	ASM Materials Education Foundati	ion	Award ribbon and a certificate
Noor Fard	ooqi	Solar Energy Everywhere!		
		Talath Ansari	Crescent Academy	y International
Place	Code	Organization Name		Organization Description
1	EPA	Environmental Protection Agency		Congratulatory Letter of encourgement
Nusayba <i>i</i>	Abdul	The Disappearing Act		
		Zehra Beg	Huda Upper Schoo	ol
Place	Code	Organization Name		Organization Description
1	EPA	Environmental Protection Agency		Congratulatory Letter of encourgement
Olivia Lee		Bioplastic vs. Petroleum plastic		
		David Egan	Larson Middle Sch	nool
Place	Code	Organization Name		Organization Description
3-JR	AIRWAS	Air Waste Management Association	on	Certificate and \$100 third place award
1	EPA	Environmental Protection Agency		Congratulatory Letter of encourgement
1	NOAA	United States Department of Comp Atmosphere	merce Oceans and	Certificate of Recognition
Olivia Wa	gner	Quantitative Graphic and WSRA	A to determine Olym	pic Gender Uniforms differences
		Andrew Wagner	MSEF-Midland HH	I Dow HS
Place	Code	Organization Name		Organization Description
1	ASA	American Statistical Association (A Chapters	SA), Michigan	\$200 Award of Excellence

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Fourth Place Award of \$50 Cash Award

4

STATE

MSEF

Osvaldo Plascer Place Code 1 BRO Owen Bailey	e Org	Which Materials Block Wi-Fi Sign Sheryl Evans ganization Name roadcom Masters Competition Improving Road Material Durabil Andrea Williams	Clippert Academy M	liddle School Organization Description Student is nominated for competition in the Broadcom Masters Competition
1 BRO	OAD1 Br	ganization Name oadcom Masters Competition Improving Road Material Durabi	lity	Organization Description
1 BRO	OAD1 Br	roadcom Masters Competition Improving Road Material Durabi	lity	
		Improving Road Material Durabi	lity	Student is nominated for competition in the Broadcom Masters Competition
Owen Bailey	e Org	,	•	
	e Org	Andrea Williams		
	e Org		West Bloomfield Mic	ddle School-Abbott Campus
Place Code		ganization Name		Organization Description
2JR ASN	MDET AS	6M - Detroit Chapter		Certificate of accomplishment and complementary admission to/recognitio at chapter dinner meeting.
1 BRO	OAD1 Br	oadcom Masters Competition	9	Student is nominated for competition in the Broadcom Masters Competitio
1 EPA	A En	nvironmental Protection Agency	(Congratulatory Letter of encourgement
Owen Dong		Arsenic toxicity, accumulation, a	nd biotransformation	in Agaricus bisporus
		Eric Lohr	Rochester Adams Hig	gh School
Place Code	e Or	ganization Name		Organization Description
1-ST AM	/IS Ar	merican Meteorological Society	(Certificate of outstanding achievement
1 EPA	A En	nvironmental Protection Agency	(Congratulatory Letter of encourgement
1SR GLV	.WA Gr	reat Lakes Water Authority		\$100 visa gift card, Custom GLWA Trophy and a Certificate.
GRAN GRI	RND-S Gr	rand Award-Senior Division	(Grand Award
1 ISE	F ISI	EF		SEFMD ISEF Finalist for 2022, May 8-13, 2022
1-ST NAS	ASA NA	ASA Earth System Science	(Certificate of Recognition-MSEF
1-ST RIC	COH Ri	coh Corporation	(Congratulatory letter to student, Certificate
2 STA	ATE M	SEF	9	Second Place Award of \$100 Cash Award
Prachi Gupta		How does Spirulina affect bacter	ia?	
		Laura Luckins	Detroit Country Day	Upper
Place Code	e Or	ganization Name		Organization Description
1 INV	VITR So	ociety for In Vitro Biology	(Certificate of Achievement

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Certificate	Namo	Title Teacher	School
ertificater	Name	Teacher	361001
Praneel Re	eddy	Water filter David Egan	Larson Middle School
Place	Code	Organization Name	Organization Description
1	EPA	Environmental Protection Agency	Congratulatory Letter of encourgement
Prasham R	Rathod	Gaming Addiction	
		David Egan	Larson Middle School
Place	Code	Organization Name	Organization Description
1	BROAD1	Broadcom Masters Competition	Student is nominated for competition in the Broadcom Masters Competition
1JR	USNAVY	United States Navy	Letter of Congratulations, ONR Medallion, Naval Science Award Certificate
Puja Ravi		Compressed Leaf Firewood	
		Andrea Williams	West Bloomfield Middle School-Abbott Campus
Place	Code	Organization Name	Organization Description
1	BROAD1	Broadcom Masters Competition	Student is nominated for competition in the Broadcom Masters Competition
1	EPA	Environmental Protection Agency	Congratulatory Letter of encourgement
Radia Zam	nan	Magic Eraser	
		Zehra Beg	Huda Upper School
Place	Code	Organization Name	Organization Description
1	BROAD1	Broadcom Masters Competition	Student is nominated for competition in the Broadcom Masters Competition
Raghav Su Krish Desa	bramaniam v ii	Practical and Cost- Efficient Tra Disabled	reality and Chorded Keyboard Input Methods to Develop a inscription and Speech Synthesis Aid for the Auditory and Speech
		Jackie Toepel	International Academy-East Campus
		·	
Place		Organization Name	Organization Description
1	IEEE	Organization Name IEEE Southeastern Michigan Section	Organization Description Frameable Certificate, \$100 cash award
		Organization Name	Organization Description

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CertificateName	Title Teacher	School			
Rahul Barpanda	Tranilast Mitigates ER Stress-induced RPE Cell Dysfunction in AMD				
	Karen Lamb	Detroit Country Da	ay Upper		
Place Code	Organization Name		Organization Description		
HM ASA	American Statistical Association (AS Chapters	A), Michigan	Certificate of Recognition		
3 ASEIO	American Society of Engineers of In	dian Origin	Certificate		
1-ST BIOMED	Regeneron BioMedical Award		Award Certificate, special recognition, and \$500 award		
3 STATE	MSEF		Third Place Award of \$75 Cash Award		
Rayhan Shah	Blindspot Sensor for 18 Wheeler	-S			
	David Egan	Larson Middle Sch	nool		
Place Code	Organization Name		Organization Description		
1 BROAD1	Broadcom Masters Competition		Student is nominated for competition in the Broadcom Masters Competition		
GRAN GRND-J	Grand Award-Junior Division		Grand Award		
Razzi Masroor	Matching Preclusion and Biparti	te Dual-Cube-Like N	letworks		
	Mitchell Eithun	Detroit Country Da	ay Upper		
Place Code	Organization Name		Organization Description		
HM ASA	American Statistical Association (AS Chapters	A), Michigan	Certificate of Recognition		
Reem Elzaghir	Impact of the COVID-19 Pandem	ic on STEM Learnin	g		
	Jennifer Gorsline	Dearborn Center f	for Math, Science & Technology		
Place Code	Organization Name		Organization Description		
1 APA	American Psychological Association		Certificate of accomplishment		
Reokia Elahdan	Cant keep up with the tides!				
	Talath Ansari	Crescent Academy	y International		
Place Code	Organization Name		Organization Description		

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Congratulatory Letter of encourgement

Environmental Protection Agency

1

EPA

CertificateName	Title Teacher	School
Reyanne Salameh	Your Temperature's Origin	
	Talath Ansari	Crescent Academy International
Place Code	Organization Name	Organization Description
3JR ASHRAE	Amercian Society of Heating, Refrige Conditioning Engineers	erating and Air Book and Certificate
1 EPA	Environmental Protection Agency	Congratulatory Letter of encourgement
Ricardo Pastor	RipTide: Real-time Beach Hazard	Warning System
	Matthew Miller	MSEF-Saginaw Arts and Academy
Place Code	Organization Name	Organization Description
1-ST USNAVY	United States Navy	Letter of Congratulations, ONR Medallion, Naval Science Award Certificate, and \$75 gift card
Rimsha Ansari	The Secret of Biodiesel	
	Talath Ansari	Crescent Academy International
Place Code	Organization Name	Organization Description
1 BROAD1	Broadcom Masters Competition	Student is nominated for competition in the Broadcom Masters Competition
Rishab Sheth	Using Magnetic Booms to clean u	up oil spills
	David Egan	Larson Middle School
Place Code	Organization Name	Organization Description
1 EPA	Environmental Protection Agency	Congratulatory Letter of encourgement
Rishi Chowdhury	Reflections of Hydropollution on	Moina brachiata
	S Chowdhury	Independent Student
Place Code	Organization Name	Organization Description
1-JR AIRWAS	Air Waste Management Association	Certificate and \$200 first place award
1 BROAD1	Broadcom Masters Competition	Student is nominated for competition in the Broadcom Masters Competition
1 EPA	Environmental Protection Agency	Congratulatory Letter of encourgement
2JR GLWA	Great Lakes Water Authority	\$50 visa gift card, Custom GLWA Trophy and a Certificate.

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		Title		
Certificate!	Name	Teacher	School	
GRAN	N GRND-J	Grand Award-Junior Division		Grand Award
1JR	USNAVY	United States Navy		Letter of Congratulations, ONR Medallion, Naval Science Award Certificate
Rohit Mah	nesh	Can your shoe detect concuss	ion?	
		Marcia Lizzio	Salem High School	
Place	Code	Organization Name		Organization Description
2	ASA	American Statistical Association (Chapters	ASA), Michigan	\$50 Award of Merit
4	STATE	MSEF		Fourth Place Award of \$50 Cash Award
Rohit Redo	dy	Effect of anti-bacterial agents	with curcumin on the	growth of E-Coli
		Shalini Thoutreddy	Independent Stud	ent
Place	Code	Organization Name		Organization Description
1	BROAD1	Broadcom Masters Competition		Student is nominated for competition in the Broadcom Masters Competition
1	DOD	DOD-STEM award from Society fo	or Science	DOD STEM Leadership Prize certificate, voucher for \$100
Rubria Ang	gulo	Candle in The Wind		
		Carol Smuk	Academy of the Ai	mericas-Middle School
Place	Code	Organization Name		Organization Description
1	BROAD1	Broadcom Masters Competition		Student is nominated for competition in the Broadcom Masters Competition
Ruisi Ma		Correlation between Selective	e Hunger and Stress Le	vel
		Patricia Hanlan	Detroit Country Da	ay Upper
		Organization Name		Organization Description
Place	Code	Organization Name		
Place HM	ASA	American Statistical Association (Chapters	ASA), Michigan	Certificate of Recognition
НМ		American Statistical Association (Chapters eng Al Clean Water Project		
НМ	ASA	American Statistical Association (Chapters	ASA), Michigan Boulan Park Middl	

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1

BROAD1

Broadcom Masters Competition

Student is nominated for competition in the Broadcom Masters Competition

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CertificateName	Teacher	School
GRAN GRND-J	Grand Award-Junior Division	Grand Award
Saanvi Mandapati	Fighting World Hunger with Ger	etically Modified Organisms
	David Egan	Larson Middle School
Place Code	Organization Name	Organization Description
1JR USNAVY	United States Navy	Letter of Congratulations, ONR Medallion, Naval Science Award Certificate
Sahas Ravoor	The Best Storm and Sewer Syste	n!
	David Egan	Larson Middle School
Place Code	Organization Name	Organization Description
1 BROAD1	Broadcom Masters Competition	Student is nominated for competition in the Broadcom Masters Competition
1JR USNAVY	United States Navy	Letter of Congratulations, ONR Medallion, Naval Science Award Certificate
Sanjana Duttagupta	RevealTheIngredient: A Novel Ir	gredient-Label Computer Vision Application
	Karin Nelson	Northville High School
Place Code	Organization Name	Organization Description
3 ASEIO	American Society of Engineers of In	lian Origin Certificate
4 STATE	MSEF	Fourth Place Award of \$50 Cash Award
Shaniyah Singletary	Bacteria Fright	
, , ,	Kimberly Finley	Bates Academy
Place Code	Organization Name	Organization Description
1 EPA	Environmental Protection Agency	Congratulatory Letter of encourgement
Character MCIII and a		
Shawnta Williams	Filter Vs Filter	
Snawnta Williams	Filter Vs Filter Lashon Clay	Sampson-Webber Leadership Academy-Middle School
Place Code		Sampson-Webber Leadership Academy-Middle School Organization Description

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CertificateNa	me	Title Teacher	School	
Shrinidhi Kul	karni	Using object detection to allow blind people to know where they are going		
		David Egan	Larson Middle School	
Place Co	ode	Organization Name	Organization Description	
1 6	BROAD1	Broadcom Masters Competition	Student is nominated for competition in the Broadcom Masters Competition	
Simran Belar	nger	Heating Lysate to Expedite DNA	Extraction	
		Heather Lechner	Plymouth Scholars Middle School	
Place Co	ode	Organization Name	Organization Description	
1 E	BROAD1	Broadcom Masters Competition	Student is nominated for competition in the Broadcom Masters Competition	
1ST [DOD	DOD-STEM award from Society for	Science DOD STEM Leadership Prize certificate, voucher for \$100	
GRAN (GRND-J	Grand Award-Junior Division	Grand Award	
1 l	LEMEL	Lemelson Foundation	First Place Award	
1 l	USAID	US Agency for International Develo	pment Science Champion Award Certificate	
Simran Gupt Nurayda Albe		Diving into the Great Lakes		
		Jackie Toepel	International Academy-East Campus	
Place Co	ode	Organization Name	Organization Description	
HM A	ASA	American Statistical Association (AS Chapters	SA), Michigan Certificate of Recognition	
2SR (GLWA	Great Lakes Water Authority	\$50 visa gift card, Custom GLWA Trophy and a Certificate.	
1-ST l	USAF	United States Air Force	Congratulatory Letter and certificate	
Sincere Daile	5À	The effect of abscisic acid on the	e germination of Solanum lycopersicum seeds	
		Sonya Brown	Fisher Magnet Upper Academy	
Place Co	ode	Organization Name	Organization Description	
1 6	BROAD1	Broadcom Masters Competition	Student is nominated for competition in the Broadcom Masters Competition	

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CertificateN	ame	Title Teacher	School	
Sonnet Xu		Drought Affects Mangrove	e Recovery Patterns Follow	wing Hurricane Irma
		Rebecca Brewer	Troy High School	
Place (Code	Organization Name		Organization Description
1	AMS	American Meteorological Soc	iety	Certificate of outstanding achievement
1-ST	AWG	Association of Women GeoSc	ientists	Awards Certificate for MSEF
4	EMA	Environmental Management Association		Honorable mention on behalf of the Environmental Management Association (certificate only, no monetary award)
1	EPA	Environmental Protection Age	ency	Congratulatory Letter of encourgement
1-ST	NOAA	United States Department of Commerce Oceans and Atmosphere		Certificate of Recognition
1	RICOH	Ricoh Corporation		Congratulatory letter to student, Certificate
3	STATE	MSEF		Third Place Award of \$75 Cash Award
Sonya Zhan	g	A Survey of the Greater W	ax Moth's Alimentary Car	nal in an Attempt to Discern P
		Marc Fazio	Detroit Country D	ay Upper
Place (Code	Organization Name		Organization Description
1-SR	AIRWAS	Air Waste Management Asso	ciation	Certificate and \$300 first place award
1	AMS	American Meteorological Soc	iety	Certificate of outstanding achievement
1	AWG	Association of Women GeoSc	ientists	Awards Certificate
1	EPA	Environmental Protection Age	ency	Congratulatory Letter of encourgement
Sophia Yato	ooma	Extravert = Extra Memory		

Pamela Clark Oakland Christian School-MS	
Place Code Organization Name Organization Description	
1 BROAD1 Broadcom Masters Competition Student is nominated for competitio	on in the Broadcom Masters Competition
1JR USNAVY United States Navy Letter of Congratulations, ONR Meda	allion, Naval Science Award Certificate

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		Title	
Certificate	Name	Teacher	School
Sruthi Per Sakalle	eddy with So	omya A Machine Learning Approach t	to Predicting Water Quality
		Jackie Toepel	International Academy-East Campus
Place	Code	Organization Name	Organization Description
1	EPA	Environmental Protection Agency	Congratulatory Letter of encourgement
Supra Kuc	hibhatla	Cooling Cities	
		Jackie Toepel	International Academy-East Campus
Place	Code	Organization Name	Organization Description
1	AMS	American Meteorological Society	Certificate of outstanding achievement
3	EMA	Environmental Management Assoc	Third place scholarship award on behalf of the Environmental Managemen Association, certificate and an award of \$500
1	EPA	Environmental Protection Agency	Congratulatory Letter of encourgement
Suprathik	Jalari	Event Horizon	
		Heather Lechner	Plymouth Scholars Middle School
Place	Code	Organization Name	Organization Description
1	BROAD1	Broadcom Masters Competition	Student is nominated for competition in the Broadcom Masters Competition
Syed Raiya	an	Halophyte-rs	
		David Egan	Larson Middle School
Place	Code	Organization Name	Organization Description
1	EPA	Environmental Protection Agency	Congratulatory Letter of encourgement
Syeda Tas	nim	How does positive and negative	e comments affect a plants growth
		Anjana Kapoor	Davison Elementary-Middle School
Place	Code	Organization Name	Organization Description

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Student is nominated for competition in the Broadcom Masters Competition

BROAD1

1

Broadcom Masters Competition

CertificateName	Title Teacher	School
Tanay Panja	Engineering AI-IoT System for	Energy Forecasting & Environmental Monitoring
	Priyanka Meharia	Clague MS
Place Code	Organization Name	Organization Description
1 BROAD1	Broadcom Masters Competition	Student is nominated for competition in the Broadcom Masters Competition
3JR GLWA	Great Lakes Water Authority	\$25 visa gift card, Custom GLWA Trophy and a Certificate.
GRAN GRND-J	Grand Award-Junior Division	Grand Award
1J UM-SXi	Univ of Mich Chapter of Sigma Xi	Certificate of award and cash award in the Junior Division
Taylor Verdell	Does Solar Activity Create Spac	ce Weather that Can Impact Earth?
	Connie Atkisson	Thirkell Middle School
Place Code	Organization Name	Organization Description
1 BROAD1	Broadcom Masters Competition	Student is nominated for competition in the Broadcom Masters Competition
Teresa Ahola	Why So Blue?	
	Angela Zielonka	Michigan Math and Science Academy-MS
Place Code	Organization Name	Organization Description
1 BROAD1	Broadcom Masters Competition	Student is nominated for competition in the Broadcom Masters Competition
Thomas Lemmer	Liquids and Viscosity	
	Vanessa Mallory	St. Fabian
Place Code	Organization Name	Organization Description
1 BROAD1	Broadcom Masters Competition	Student is nominated for competition in the Broadcom Masters Competition
Thomas Rudnick	LEGOSorting Through the Jun	ngle
	Michael Bair	St. Hugo of the Hills - Elementary(3-5)

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Organization Description

First Place

Place Code

MMCA

1

Organization Name

Mini/Micro Computer Applications

Place Code Organization Name Organization Description	CertificateName	Title Teacher	School	
Place Code Organization Name Organization Description Trevis Brown TroBot George Goff Henry Ford High School Place Code Organization Name Organization Description 1 UDM University of Detroit Mercy Sin,000 Scholarship per year for a maximum of four years undergraduate tuition at University of Detroit Mercy, renewable Trinity Chen Early Diagnosis of COPD Using Analysis of Single-cell RNA Sequencing Marc Fazio Detroit Ountry Day Upper Place Code Organization Name Organization Description 4 STATE MSEF Fourth Place Award of \$50 Cash Award Tyrone Taylor Bountiful Bismuth? Susan Adams Gompers Elementary-Middle School Place Code Organization Name Organization Description 1 BROAD1 Broadcom Masters Competition Student is nominated for competition in the Broadcom Masters Competition Uzair Musharraf How do carbonated beverages affect meat, representing the GI tract? Zehra Beg Huda Upper School Place Code Organization Name Organization Description 1 BROAD1 Broadcom Masters Competition Student is nominated for competition in the Broadcom Masters Competition Uzair Musharraf Using C. elegans to analyze the neurodegenerative impacts of organophosphates Laura Luckins Detroit Country Day Upper Place Code Organization Name Organization Description Student is nominated for competition in the Broadcom Masters Competition Organization Description Student is nominated for competition in the Broadcom Masters Competition Detroit Country Day Upper Place Code Organization Name Organization Description	Toluwaleyi Meadows	What is the best way to preserv	ve food?	
Trevis Brown TroBot George Goff Henry Ford High School Place Code Organization Name Organization Description 1 UDM University of Detroit Mercy S10,000 scholarship per year for a maximum of four years undergraduate truition at University of Detroit Mercy, renewable Trinity Chen Early Diagnosis of COPD Using Analysis of Single-cell RNA Sequencing Marc Fazio Detroit Country Day Upper Place Code Tyrone Taylor Bountiful Bismuth? Susan Adams Gompers Elementary-Middle School Place Code Organization Name Organization Description BROAD1 Broadcom Masters Competition Student is nominated for competition in the Broadcom Masters Competition Water Starte Fourth Place Adams Student is nominated for competition in the Broadcom Masters Competition Student is nominated for competition in the Broadcom Masters Competition Student is nominated for competition in the Broadcom Masters Competition Student is nominated for competition in the Broadcom Masters Competition Student is nominated for competition in the Broadcom Masters Competition Student is nominated for competition in the Broadcom Masters Competition Student is nominated for competition in the Broadcom Masters Competition Student is nominated for competition in the Broadcom Masters Competition Student is nominated for competition in the Broadcom Masters Competition Place Code Organization Name Organization Description Organization Description Organization Description		Emily Phillips	Renaissance High School	
Trevis Brown George Goff Henry Ford High School Place Code Organization Name Organization Description 1 UDM University of Detroit Mercy S10,000 scholarship per year for a maximum of four years undergraduate tuition at University of Detroit Mercy, renewable Trinity Chen Early Diagnosis of COPD Using Analysis of Single-cell RNA Sequencing Marc Fazio Detroit Country Day Upper Place Code Organization Name Organization Description Tyrone Taylor Bountiful Bismuth? Susan Adams Gompers Elementary-Middle School Place Code Organization Name Organization Description Place Code Organization Name Organization Description Place Code Organization Name Organization Description Wusharraf How do carbonated beverages affect meat, representing the GI tract? Zehra Beg Huda Upper School Place Code Organization Name Organization Description Place Code Organization Name Organization Description Student is nominated for competition in the Broadcom Masters Competition Student is nominated for competition in the Broadcom Masters Competition Veer Agarwal Using C. elegans to analyze the neurodegenerative impacts of organophosphates Laura Luckins Detroit Country Day Upper Place Code Organization Name Organization Description	Place Code	Organization Name	Organization Description	
Place Code Organization Name Organization Description	1 EPA	Environmental Protection Agency	Congratulatory Letter of encourgement	
Place Code Organization Name Organization Description 1 UDM University of Detroit Mercy \$10,000 scholarship per year for a maximum of four years undergraduate tuition at University of Detroit Mercy, renewable Trinity Chen Early Diagnosis of COPD Using Analysis of Single-cell RNA Sequencing Marc Fazio Detroit Country Day Upper Place Code Organization Name Organization Description 4 STATE MSEF Fourth Place Award of \$50 Cash Award Tyrone Taylor Bountiful Bismuth? Susan Adams Gompers Elementary-Middle School Place Code Organization Name Organization Description 1 BROAD1 Broadcom Masters Competition Student is nominated for competition in the Broadcom Masters Competition Uzair Musharraf How do carbonated beverages affect meat, representing the GI tract? Zehra Beg Huda Upper School Place Code Organization Name Organization Description 1 BROAD1 Broadcom Masters Competition Student is nominated for competition in the Broadcom Masters Competition 1 BROAD1 Broadcom Masters Competition Student is nominated for competition in the Broadcom Masters Competition 1 BROAD1 Broadcom Masters Competition Student is nominated for competition in the Broadcom Masters Competition 1 BROAD1 Broadcom Masters Competition Student is nominated for competition in the Broadcom Masters Competition Organization Description Veer Agarwal Using C. elegans to analyze the neurodegenerative impacts of organophosphates Laura Luckins Detroit Country Day Upper Place Code Organization Name Organization Description	Trevis Brown	TroBot		
1 UDM University of Detroit Mercy \$10,000 scholarship per year for a maximum of four years undergraduate tuition at University of Detroit Mercy, renewable Trinity Chen Early Diagnosis of COPD Using Analysis of Single-cell RNA Sequencing Marc Fazio Detroit Country Day Upper Place Code Organization Name Organization Description 4 STATE MSEF Fourth Place Award of \$50 Cash Award Tyrone Taylor Bountiful Bismuth? Susan Adams Gompers Elementary-Middle School Place Code Organization Name Organization Description 1 BROAD1 Broadcom Masters Competition Student is nominated for competition in the Broadcom Masters Competition Uzair Musharraf How do carbonated beverages affect meat, representing the GI tract? Zehra Beg Huda Upper School Place Code Organization Name Organization Description 1 BROAD1 Broadcom Masters Competition Student is nominated for competition in the Broadcom Masters Competition Student is nominated for competition in the Broadcom Masters Competition Using C. elegans to analyze the neurodegenerative impacts of organophosphates Laura Luckins Detroit Country Day Upper Place Code Organization Name Organization Description		George Goff	Henry Ford High School	
Trinity Chen Early Diagnosis of COPD Using Analysis of Single-cell RNA Sequencing Marc Fazio Detroit Country Day Upper Place Code Organization Name Organization Description 4 STATE MSEF Fourth Place Award of \$50 Cash Award Tyrone Taylor Bountiful Bismuth? Susan Adams Gompers Elementary-Middle School Place Code Organization Name Organization Description 1 BROAD1 Broadcom Masters Competition Student is nominated for competition in the Broadcom Masters Competition Uzair Musharraf How do carbonated beverages affect meat, representing the GI tract? Zehra Beg Huda Upper School Place Code Organization Name Organization Description Student is nominated for competition in the Broadcom Masters Competition Usair Musharraf Using C. elegans to analyze the neurodegenerative impacts of organophosphates Laura Luckins Detroit Country Day Upper Place Code Organization Name Organization Description	Place Code	Organization Name	Organization Description	
Place Code Organization Name Organization Description 4 STATE MSEF Fourth Place Award of \$50 Cash Award Tyrone Taylor Bountiful Bismuth? Susan Adams Gompers Elementary-Middle School Place Code Organization Name Organization Description 1 BROAD1 Broadcom Masters Competition Student is nominated for competition in the Broadcom Masters Competition Uzair Musharraf How do carbonated beverages affect meat, representing the GI tract? Zehra Beg Huda Upper School Place Code Organization Name Organization Description 1 BROAD1 Broadcom Masters Competition Student is nominated for competition in the Broadcom Masters Competition Organization Description Student is nominated for competition in the Broadcom Masters Competition Veer Agarwal Using C. elegans to analyze the neurodegenerative impacts of organophosphates Laura Luckins Detroit Country Day Upper Place Code Organization Name Organization Description	1 UDM	University of Detroit Mercy		
Place Code 4 STATE MSEF Pourth Place Award of \$50 Cash Award Tyrone Taylor Bountiful Bismuth? Susan Adams Gompers Elementary-Middle School Place Code Organization Name Organization Description 1 BROAD1 Broadcom Masters Competition Student is nominated for competition in the Broadcom Masters Competition Uzair Musharraf How do carbonated beverages affect meat, representing the GI tract? Zehra Beg Huda Upper School Place Code Organization Name Organization Description Student is nominated for competition in the Broadcom Masters Competition Student is nominated for competition in the Broadcom Masters Competition Using C. elegans to analyze the neurodegenerative impacts of organophosphates Laura Luckins Detroit Country Day Upper Place Code Organization Name Organization Description	Trinity Chen	Early Diagnosis of COPD Using Analysis of Single-cell RNA Sequencing		
Tyrone Taylor Bountiful Bismuth? Susan Adams Gompers Elementary-Middle School Place Code Organization Name Organization Description Student is nominated for competition in the Broadcom Masters Competition How do carbonated beverages affect meat, representing the GI tract? Zehra Beg Huda Upper School Place Code Organization Name Organization Description Student is nominated for competition in the Broadcom Masters Competition Using C. elegans to analyze the neurodegenerative impacts of organophosphates Laura Luckins Detroit Country Day Upper Place Code Organization Name Organization Description		Marc Fazio	Detroit Country Day Upper	
Tyrone Taylor Bountiful Bismuth? Susan Adams Gompers Elementary-Middle School Place Code Organization Name Organization Description 1 BROAD1 Broadcom Masters Competition Uzair Musharraf How do carbonated beverages affect meat, representing the GI tract? Zehra Beg Huda Upper School Place Code Organization Name Organization Description 1 BROAD1 Broadcom Masters Competition Student is nominated for competition Organization Description Student is nominated for competition in the Broadcom Masters Competition Using C. elegans to analyze the neurodegenerative impacts of organophosphates Laura Luckins Detroit Country Day Upper Place Code Organization Name Organization Description	Place Code	Organization Name	Organization Description	
Susan Adams Gompers Elementary-Middle School Place Code Organization Name Organization Description 1 BROAD1 Broadcom Masters Competition Student is nominated for competition in the Broadcom Masters Competition Uzair Musharraf How do carbonated beverages affect meat, representing the GI tract? Zehra Beg Huda Upper School Place Code Organization Name Organization Description 1 BROAD1 Broadcom Masters Competition Student is nominated for competition in the Broadcom Masters Competition Veer Agarwal Using C. elegans to analyze the neurodegenerative impacts of organophosphates Laura Luckins Detroit Country Day Upper Place Code Organization Name Organization Description	4 STATE	MSEF	Fourth Place Award of \$50 Cash Award	
Place Code Organization Name Organization Description 1 BROAD1 Broadcom Masters Competition Student is nominated for competition in the Broadcom Masters Competition Uzair Musharraf How do carbonated beverages affect meat, representing the GI tract? Zehra Beg Huda Upper School Place Code Organization Name Organization Description 1 BROAD1 Broadcom Masters Competition Student is nominated for competition in the Broadcom Masters Competition Veer Agarwal Using C. elegans to analyze the neurodegenerative impacts of organophosphates Laura Luckins Detroit Country Day Upper Place Code Organization Name Organization Description	Tyrone Taylor	Bountiful Bismuth?		
1 BROAD1 Broadcom Masters Competition Student is nominated for competition in the Broadcom Masters Competition Uzair Musharraf How do carbonated beverages affect meat, representing the GI tract? Zehra Beg Huda Upper School Place Code Organization Name Organization Description 1 BROAD1 Broadcom Masters Competition Student is nominated for competition in the Broadcom Masters Competition Veer Agarwal Using C. elegans to analyze the neurodegenerative impacts of organophosphates Laura Luckins Detroit Country Day Upper Place Code Organization Name Organization Description		Susan Adams	Gompers Elementary-Middle School	
Uzair Musharraf How do carbonated beverages affect meat, representing the GI tract? Zehra Beg Huda Upper School Place Code Organization Name Organization Description Student is nominated for competition in the Broadcom Masters Competition Using C. elegans to analyze the neurodegenerative impacts of organophosphates Laura Luckins Detroit Country Day Upper Place Code Organization Name Organization Description	Place Code	Organization Name	Organization Description	
Zehra Beg Huda Upper School Place Code Organization Name Organization Description 1 BROAD1 Broadcom Masters Competition Student is nominated for competition in the Broadcom Masters Competition Veer Agarwal Using C. elegans to analyze the neurodegenerative impacts of organophosphates Laura Luckins Detroit Country Day Upper Place Code Organization Name Organization Description	1 BROAD1	Broadcom Masters Competition	Student is nominated for competition in the Broadcom Masters Competition	
Place Code Organization Name Organization Description 1 BROAD1 Broadcom Masters Competition Student is nominated for competition in the Broadcom Masters Competition Veer Agarwal Using C. elegans to analyze the neurodegenerative impacts of organophosphates Laura Luckins Detroit Country Day Upper Place Code Organization Name Organization Description	Uzair Musharraf	How do carbonated beverages	affect meat, representing the GI tract?	
1 BROAD1 Broadcom Masters Competition Student is nominated for competition in the Broadcom Masters Competition Veer Agarwal Using C. elegans to analyze the neurodegenerative impacts of organophosphates Laura Luckins Detroit Country Day Upper Place Code Organization Name Organization Description		Zehra Beg	Huda Upper School	
Veer Agarwal Using C. elegans to analyze the neurodegenerative impacts of organophosphates Laura Luckins Detroit Country Day Upper Place Code Organization Name Organization Description	Place Code	Organization Name	Organization Description	
Laura Luckins Detroit Country Day Upper Place Code Organization Name Organization Description	1 BROAD1	Broadcom Masters Competition	Student is nominated for competition in the Broadcom Masters Competition	
Place Code Organization Name Organization Description	Veer Agarwal	Using C. elegans to analyze the	neurodegenerative impacts of organophosphates	
		Laura Luckins	Detroit Country Day Upper	
1 EPA Environmental Protection Agency Congratulatory Letter of encourgement	Place Code	Organization Name	Organization Description	
	1 EPA	Environmental Protection Agency	Congratulatory Letter of encourgement	

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Certificate	Name	Title Teacher	School	
Vijay Daita	1	Indicators of Complications Af	ter Cardiac Surgery	
		Noelle Collis	Bloomfield Hills H	ligh School
Place	Code	Organization Name		Organization Description
НМ	ASA	American Statistical Association (A Chapters	ASA), Michigan	Certificate of Recognition
Vikram Go	ddla	Al Solution for Effective Treatr	nent Planning for Bra	in Tumor Patients
		Patricia Hanlan	Detroit Country D	ay Upper
Place	Code	Organization Name		Organization Description
2	ASA	American Statistical Association (A Chapters	ASA), Michigan	\$50 Award of Merit
GRAN	GRND-S	Grand Award-Senior Division		Grand Award
1	ISEF	ISEF		SEFMD ISEF Finalist for 2022, May 8-13, 2022
1-ST	MUALPH	Mu Alpha Theta		Certificate of Achievement
2	STATE	MSEF		Second Place Award of \$100 Cash Award
Viktoria Ch	nernolutskiy	From Trash to Gas: Powering (Our Future	
		David Egan	Larson Middle Sch	nool
Place	Code	Organization Name		Organization Description
1	BROAD1	Broadcom Masters Competition		Student is nominated for competition in the Broadcom Masters Competition
1	NOAA	United States Department of Com Atmosphere	merce Oceans and	Certificate of Recognition
1JR	SHPE	Society of Hispanic Professional E	ngineers	Certificate of Recognition & Small Gift
Yun Du		Angular Momentum-Driven Ci	rcular Rotatable Ocea	an Robot
		Stephanie Kokoszka	Cranbrook Kingsw	vood Upper School
Place	Code	Organization Name		Organization Description
2	STATE	MSEF		Second Place Award of \$100 Cash Award
1-ST	USNAVY	United States Navy		Letter of Congratulations, ONR Medallion, Naval Science Award Certificate, and \$75 gift card

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CertificateName 1-ST YALE	Teacher Yale Science & Engineering Association	School on, Inc. Certificate and acceptance form of award
Zachariya Hawasli	Does the shape of an ice cube af	fect the time it takes to melt
	Zehra Beg	Huda Upper School
Place Code	Organization Name	Organization Description
1 EPA	Environmental Protection Agency	Congratulatory Letter of encourgement
Zainab Syeda	Reuse to Reduce!	
	Talath Ansari	Crescent Academy International
Place Code	Organization Name	Organization Description
1 EPA	Environmental Protection Agency	Congratulatory Letter of encourgement
Zakariya Alokk	Magnetize me if you can! Magne	ts on Plants
	Zehra Beg	Huda Upper School
Place Code	Organization Name	Organization Description
1 EPA	Environmental Protection Agency	Congratulatory Letter of encourgement
Zayneb Ardaini	Water Filtration	
	Rutabah Bhutta	Tawheed Center School
Place Code	Organization Name	Organization Description
1 BROAD1	Broadcom Masters Competition	Student is nominated for competition in the Broadcom Masters Competition
Zia Airea Currie	Screaming for Sunscreen: which	Popular Sunscreen Lotion Effectively Protects f
	Connie Atkisson	Thirkell Middle School
Place Code	Organization Name	Organization Description
1 BROAD1	Broadcom Masters Competition	Student is nominated for competition in the Broadcom Masters Competition
1JR GLCHPS	Great Lakes Chapter Health Physics	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.

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CertificateName	Title Teacher	School	
Zijie He	A New Method of Footprint Identifier Based on Deep Learning		
	Stephanie Kokoszka	Cranbrook Kingswood Upper School	
Place Code	Organization Name	Organization Description	
1 IEEE	IEEE Southeastern Michigan Sectio	n Frameable Certificate, \$100 cash award	
4 STATE	MSEF	Fourth Place Award of \$50 Cash Award	
Ziyad Abdulaziz	Electrolyte Insight		
	Rutabah Bhutta	Tawheed Center School	
Place Code	Organization Name	Organization Description	
1 BROAD1	Broadcom Masters Competition	Student is nominated for competition in the Broadcom Masters Competition	

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