

2019 MASSACHUSETTS MIDDLE SCHOOL SCIENCE & ENGINEERING FAIR WINNERS

ID	Award	Names	School	Title
157	Grand Prize, Cabot	Ajun Jasuja	Weston Middle School	Development of a Low Cost Portable ECG to Monitor Cardiac Function
42	Grand Prize, Cabot	Anna Du	Andover School of Montessori	Investigating a Marine Learning Based ROV to Identify Aggregation of Marine Microplastics
237	1st Place, Sanofi Genzyme	Jaeyi Song	Pierce School	Detoxifying Soil Polluted with Ice Melt Products by Using Ionic Compounds
133	1st Place, Sanofi Genzyme	Lily Honor	St. Mary's Catholic School	Traction Action
23	1st Place STEM Synergy	Jayce Lanzafame, Alyvia Bailey	Hopkins Academy	The Improved Medical IV System
171	1st Place STEM Synergy	Melissa Colella	St. Catherine of Siena Middle School	Extracting Chlorophyll
38	1st Place STEM Synergy	Ayush Gopal	Sarah W. Gibbons Middle School	Which Materials Can Best Shield Objects from Electromagnetic Radiation?
212	1st Place STEM Synergy	Ragav Iyer, Anish Kulkarni, Anagha Kulkarni	Ashland Middle School	Electro Magnetic Pod for Removing Orbiting Debris
1	1st Place. Pauline LaMarche Award	Delaney Woolbert, Julia Cressotti, Sarah Chow	Newton Country Day School	Back on Track
251	1st Place MA Chemsitry & Tech Alliance	Madeline Shea	Littleton Middle School	Ozone and Particulate Matter Detector
46	1st Place MA Chemsitry & Tech Alliance	Vikram Anantha	Jonas Clarke Middle School	MACC - My Automated Communication Companion - A Wearable Training System
31	1st Place MSEF STEM Award	Anusha Prabhakar	Saint Bernadette School	Algorithm to Detect Bipolar Attacks Through Voice Analysis
194	1st Place MSEF STEM Award	Madeline Holmes	Richmond Consolidated School	Mind Over Music
269	1st Place Cabot STEM Award	Sedef Mergen	Lesley Ellis School	What Material is Most Effective at Containing an Oceanic Oil Spill?
267	1st Place Cabot STEM Award	Natalie Kakule	Bancroft School	Harmful or Helpful?

173	2nd Place. Society	Optical	Niall Powers Ozyurt	St. Catherine of Siena Middle School	Helpful Hydrogen
216	2nd Place. Society	Optical	Aryan Mago	Bancroft School	I've Got That Sinking Feeling
245	2nd Place. Society	Optical	Brandon LaVoie	Littleton Middle School	Effect of Surface Temperature on Hovercraft Performance
263	2nd Place. Society	Optical	Nora Molten, Issy Neal	Carlisle Public Schools	Water Filters For Africa
14	2nd Place. Society	Optical	Daniel Nguyen	Hanover Middle School	The BLDC Motor Generator
183	2nd Place. Society	Optical	Julie Alsmaan	St. Agnes School	Memories, Positive or Negative
249	2nd Place. Society	Optical	Avanish Gowrishankar	Paul Gates Elementary School	Which Cooking Oil is Best for Making Biodiesel?
260	2nd Place. Society	Optical	Ankith Bharadwaj	R. J. Grey Junior High School	Breathe in! Breathe Out!
262	2nd Place. Society	Optical	Philip Fonesca	English School	Plastic to the Surface
288	2nd Place. Society	Optical	Katherine McDonough	Littleton Middle School	How UV Light Affects Pigments
25	2nd Place. Society	Optical	Saad Chaudhry, Haaris Ahmed	Hopkins Academy	Facial Recognition Fanbot
54	2nd Place. Society	Optical	Abigail Bertocchi	Plouffe Academy	Brachistochrone
224	2nd Place. Society	Optical	Anh Tran	Forest Grove Middle School	Riding Out The Wave, phase 2
9	2nd Place. Innovation	Cabot	Hailey Butler, Kaelyn McDonough	Bourne Middle School	Is Acid Rain Killing Our Fish?
218	2nd Place. Society	Optical	Akash Cotten	Bancroft School	Killing E. coli with Household Cleaners!
134	2nd Place. Society	Optical	Vidhur Busannagari	Sharon Middle School	Underwater Data Centers-UDC
284	2nd Place. Society	Optical	Pranav Addanki	Galvin Middle School	Novel and Inexpensive Machine Learning Model to Predict Traumatic Brain Injury (TBI)

271	2nd Place. Society	Optical	Heidi Siegler	Andover School of Montessori	Boat Drag
61	2nd Place. Society	Optical	Rebecca Jeneid	St. Catherine of Siena Middle School	Daphnia
254	2nd Place. Society	Optical	Ashmita Prajapati	Vassal Lane Upper School	A Study of Protein Aggregation Using Amino Acids
235	2nd Place. Society	Optical	Elyse McManus	Bancroft School	Work It, Circuit: A Juicy Experiment
214	2nd Place. Society	Optical	Emma Hoye-Flaherty	Millbury Memorial Jr/Sr High School	Effect of Toxic Ash on Plant Growth
208	2nd Place. Society	Optical	Ava Lawton	Millbury Memorial Jr/Sr High School	Dealing With Diabetes, The Road to Developing an Artificial Pancreas
283	2nd Place. Society	Optical	Sania Hasa	Saint Bernadette School	Detecting Melanoma Cancer with Artificial Intelligence
30	2nd Place. Society	Optical	Husayn Ladha, Aidan Lecrone, Zachary Krymgold	Hopkinton Middle School	Heat From The Streets!
259	3rd Place MSEF Tech Pearson	Sci	Manasa Rajesh	Lesley Ellis School	Does does the Acidity of Water Affect a Plant's Growth?
68	3rd Place MSEF Tech Pearson	Sci	Lillian Manning	St. Francis Xavier Schhol	Does Temperature Affect a Tennis Ball's Bounce?
168	3rd Place MSEF Tech Pearson	Sci	Catherine Moriarty	St. Agnes School	Break it Down
34	3rd Place MSEF Tech Pearson	Sci	Maya Sushkin	Nelson Place Elementary School	Does Global Warming Caused by CO2 (fossil fuels) Cause a Secondary Warming Effect?
109	3rd Place MSEF Tech Pearson	Sci	Verreault Rabecca	Boston Latin School	Muscles, Is Yours Strong?
231	3rd Place MSEF Tech Pearson	Sci	Aiden LaFrance	Dudley Middle School	Uno-phish-al Emails Can Reel You In!
167	3rd Place MSEF Tech Pearson	Sci	Anwita Revoori, Manasa Josyula, Sairoshini Kuramthirumalai	Sharon Middle School	A Whiff of H2O
193	3rd Place MSEF Tech Pearson	Sci	Kathleen Sullivan	Hampshire Regional Middle and High School	Got Lemons?

246	3rd Place MSEF Tech Pearson	Sci	Bryson Pittenger, Anna McKenzie	Groton-Dunstable Regional Middle School	The Effects of Exercise on the Mind
285	3rd Place MSEF Tech Pearson	Sci	Brian Tilford	Carlisle Public Schools	How Does Precipitation & Temperature Affect the Dimensions of a Vernal Pond?
129	3rd Place MSEF Tech Pearson	Sci	Mia Blennau	Taunton High School	The Effects of Antioxidants on the Heart Rate of Daphnia
244	3rd Place MSEF Tech Pearson	Sci	Anna Augart Welwood	Lesley Ellis School	Folding Physics into Modern Medicine
22	3rd Place MSEF Tech Pearson	Sci	Katherine Corriveau	Michael E. Smith Middle School	The Kelvin Water Dropper
182	3rd Place MSEF Tech Pearson	Sci	Helen Makdisi	St. Agnes School	Listen, Look, Learn!
26	3rd Place MSEF Tech Pearson	Sci	Shivani Parmar	Hopkins Academy	The Aerodynamics of Flat-Bottom Airfoils
39	3rd Place MSEF Tech Pearson	Sci	Benson Chi	Oak Middle School	Nanotechnology: Energy To Matter Using Sigma Bonding
184	3rd Place MSEF Tech Pearson	Sci	Mia Francesconi	St. Agnes School	MIG or TIG, Which Weld is Stronger
55	3rd Place MSEF Tech Pearson	Sci	Emily Woods	St. Mary's Catholic School	Bread or Bust?
177	3rd Place MSEF Tech Pearson	Sci	Alice Zhang, Mahri Hayden	Pioneer Valley Chinese Immersion Charter School	Shedding Light in Life
239	3rd Place MSEF Tech Pearson	Sci	Ryan Lovering, Patrick O' Rourke	Bourne Middle School	Do different fin designs affect your swimming speed?
91	3rd Place MSEF Tech Pearson	Sci	Jessica Nguyen	Plouffe Academy	How Does the Viscosity of a Liquid Affect How Hydropower Works?
49	3rd Place MSEF Tech Pearson	Sci	Mithran Wijendran	Sharon Middle School	Are Silicone Rubber Eyeglass Frames More Durable Than Currently Used Plastic Frames?
37	3rd Place MSEF Tech Pearson	Sci	Nevin Thinagar	Oak Middle School	Real-Time Motion Capture Using The Kinect Sensor
201	3rd Place MSEF Tech Pearson	Sci	Mihir Shenoy	Wildwood Elementary School	Evaluating the Ability of Wi-Fi Signals to Penetrate Different Materials

233	3rd Place MSEF Tech Pearson	Sci	Jordan Provost, Luke Lightbown, Brooke Lukasevicz	Douglas Middle School	Perception of Time
16	3rd Place MSEF Tech Pearson	Sci	Emma Doyle, Hailey Cavallo, Lauren Leong	Newton Country Day School	The Great Escape
4	3rd Place MSEF Tech Pearson	Sci	Emma Nero, Mia Iwicki	Newton Country Day School	Extra Help for an Extra Chromosome 21
248	3rd Place MSEF Tech Pearson	Sci	Aparna Deokar	Littleton Middle School	Fun Fungi
258	3rd Place MSEF Tech Pearson	Sci	Rhone-Ann Huang, Margaux Angelino	Carlisle Public Schools	Tsunami Resistant House Structure
196	3rd Place MSEF Tech Pearson	Sci	Bélen Gálvez	St. Agnes School	Remember Me, Remember Me Not
242	3rd Place MSEF Tech Pearson	Sci	Lily Kennedy, Ryan Treacy, Katherine Busby	Newton Country Day School	It's Written All Over Your Face
89	3rd Place MSEF Tech Pearson	Sci	Lauren Choy, Mina Breen	Boston Latin School	Hit refresh: productivity with exercise
188	3rd Place MSEF Tech Pearson	Sci	Cady Spelman	Hampshire Regional Middle and High School	The Human Blind Spot
229	3rd Place MSEF Tech Pearson	Sci	Rowan Baglio	Bancroft School	The Science of Spherification
11	3rd Place MSEF Tech Pearson	Sci	Liam Gavin	Veritas Christian Academy	Minimization of Mean Incidental Radiation in Cellular Networks
18	3rd Place MSEF Tech Pearson	Sci	Michael King	St. Catherine of Siena Middle School	Waste Not Want Not
81	3rd Place MSEF Tech Pearson	Sci	Isabella Kiegle	Foxborough Regional Charter School	How Do Enzymes React to Temperature?
41	3rd Place MSEF Tech Pearson	Sci	Misha Mishechkin, Vishnu Angirus	Oak Middle School	Fidget Spinner Boosted By Magnets
100	3rd Place MSEF Tech Pearson	Sci	Molly Kearney	St. Francis Xavier Schhol	Hydroponics
53	3rd Place MSEF Tech Pearson	Sci	Joe Li	Jackson-Mann K-8 School	Bio. vs. Regular
215	3rd Place MSEF Tech Pearson	Sci	Shiv Stueber	Bancroft School	How Variations in Temperature Affect Magnetic Strength

264	Honorable Mention	Aarav Mehta	Oak Meadow School	The Smart Cane
145	Honorable Mention	Akalia White	Timilty Middle School	What is the effect of increasing oxygen to the brain?
44	Honorable Mention	Eva Routhier, Natalia Salinas, Marianna Tasiopoulos	West Middle School	EasyGo on the Go
257	Honorable Mention	Mohamed Tariq Jaffar Ali	Islamic Academy for Peace	How Does Your Tone of Voice Affect Others Memory
78	Honorable Mention	Laura DeMello	Bourne Middle School	Efficiency of Batteries in Electromagnetics
206	Honorable Mention	Gena Armstrong, Olivia Preston	Saint Bernadette School	Can the Color of Your House Reduce Your Energy Footprint
10	Honorable Mention	Ka'lah Rucker	John D O'Bryant School	Measuring the Visibility of Light using a Phone Spectrophotometer
92	Honorable Mention	Thomas Craig	John D O'Bryant School	How does your inner body temperature effect your digestive Enzymes
268	Honorable Mention	Asahel Putnam	Lesley Ellis School	What is the Ideal Elevation off the Sea Floor for a Tidal Generator?
276	Honorable Mention	Aisha Farheen	Islamic Academy for Peace	Renewable Energy from Sports
119	Honorable Mention	Violet Collier, Ellie Kiernan	Warren Prescott School	Multitasking Increases Time and Errors
163	Honorable Mention	Kiran Koster, Namitha Devulapalli	Sharon Middle School	Which Water Works for Plant Life?
266	Honorable Mention	Caleb Cassio	Saint Michael School	What Factors Affect the Destruction of a Planet if Impacted by an Asteroid?
141	Honorable Mention	Emily Steiner	Millis Middle School	What is the effect of being timed on a subject's memory?
165	Honorable Mention	Jiajia Zhang	Eliot K-8 Innovation School	You Are Eating Pesticides!
112	Honorable Mention	Pranesh Sivakumar	Sharon Middle School	Does the Caffeine in Coffee Have Any Role in Stimulating Plant Growth?
99	Honorable Mention	Vishal Velavan	St. Catherine of Siena Middle School	Hydrogen Electricity
147	Honorable Mention	Courtney White, Emily Prucher	Newton Country Day School	What Will the Pill Bugs Call Home?
197	Honorable Mention	Abigail Thibodeau	Hampshire Regional Middle and High School	Stressed Out - Can It Affect Your Driving?

241	Honorable Mention	Tarun Iyer	Sarah W. Gibbons Middle School	The Burden Bridges Bear: Finding the Ideal Ratio of Materials to Weight Capacity
169	Honorable Mention	Sydney Moriarty	St. Agnes School	Dad vs Neural Network
219	Honorable Mention	Katherine Zheng	Millbury Memorial Jr/Sr High School	Effect of Type of Plastic on The Absorbency of Dimethyl Sulfide
126	Honorable Mention	Anne Tango, Nora Grimes	Newton Country Day School	The Buzz About Stimulants
186	Honorable Mention	Alondra Gonzalez, Alexandra Gauthier	Hopkins Academy	What Does Caffeine do to Plants
292	Honorable Mention	Bhuvan Veera	West Middle School	Enzymes of Detergents
236	Honorable Mention	Hamza Mufti	Oak Middle School	When Life Gives You Lemons Clear Your Driveway
230	Honorable Mention	Ariana Sacco, Kate Wall, Caroline Ramsdell	Douglas Middle School	The Effects of Fertilization on Herbs During Drought
17	Honorable Mention	Sadee Maurice, Kendra Mahoney	Bourne Middle School	The Science Behind Facial Recognition and Facial Expression
52	Honorable Mention	Samuel Gonser	St. Catherine of Siena Middle School	Battery vs. Thermal Energy
125	Honorable Mention	Ava Monteiro	Joseph H. Martin Middle School	Storm Drains
261	Honorable Mention	Karan Rana	Locke Middle School	Improving the Efficiency of an Electrochemical Cell
32	Honorable Mention	Sahithi Pogula	Hopkinton Middle School	Align the Signs! Using Machine Learning to Forecast Heart Diseases
192	Honorable Mention	Astrid Williamson	Hopkins Academy	Color Me Rainbow
185	Honorable Mention	Elizabeth Colon-Garcia	Hampshire Regional Middle and High School	Fingerprint Analysis Between Related and Non-Related Individuals
187	Honorable Mention	Cassidy Fydenkevez, Anna Dyjack	Hopkins Academy	The Aftereffects of Chemotherapy