

2017 Massachusetts State Middle School Science Engineering Fair Winners

Grand Prize, Cabot Award Broadcom Masters	Dylan Desrosiers	A Novel Design of an Efficient Aeroelastic Flutter Energy Harvester Using Ferroelectric Polymers	North Attleboro Middle School
Grand Prize, Cabot Award Broadcom Masters	Siroun Johnson	Algorithm for Accurate Control of Low Cost Joint-Based Robots	Amigos School
1st Place, Sanofi Genzyme Broadcom Masters	Shashank Jarmale	Determining the Most Efficient Design of a Microbial Fuel Cell	Locke Middle School
1st Place, Sanofi Genzyme Broadcom Masters	Aakash Sunkari	Non-Invasive, Electromechanical Biosensors "Lab on a chip" Powered by Carbon Nanotubes	North Attleboro Middle School
1st Place, GEMS Broadcom Masters	Ananthan Sadagopan	Synergism of Thymol in Acidic Solution with Carvacrol on <i>Saccharomyces cerevisiae</i>	Sarah W. Gibbons Middle School
1st Place, GEMS Broadcom Masters	Tristan Fabre, Jocelyn Pern, & John Wang	Saving Infants from Hot Cars	Andover West Middle School
1st Place, GEMS Broadcom Masters	Katie Asselin	Tower of Ha-What?	Littleton Middle School
1st Place, GEMS Broadcom Masters	Ishita Golguri	The James Webb Space Telescope	Sarah W. Gibbons Middle School
1st Place, Pauline Lamarche Award Broadcom Masters	Marzuq Iqbal	Seconds Save Lives	Advanced Math & Science Academy
1st Place, MA Chemistry & Tech Award Broadcom Masters	Saad Mufti	Thermoelectric-Powered Devices	Oak Middle School
1st Place, MA Chemistry & Tech Award Broadcom Masters	Emily Addona, Lia Fitzpatrick	How Sweet it Is.	Newton Country Day School
1st Place, MSSEF STEM Award Broadcom Masters	Isabel de Luis, Ella Leshner	Remember? Now You Can	Newton Country Day School
1st Place, MSSEF STEM Award Broadcom Masters	Lucy Fremont-Smith, Rebecca Simen	How To Train Your Fruit Flies	Newton Country Day School

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2nd Place, Optical Society Award Broadcom Masters	Christian So	Piezoelectricity: Harvesting Energy Using Piezoelectrics	Locke Middle School
2nd Place, Optical Society Award Broadcom Masters	Barron Clancy, Anderson Korman	How Do We Filter Oil from Storm Drains	Pierce Middle School
2nd Place, Optical Society Award Broadcom Masters	Sneha Jaiswal	A Long Time Ago on a Telescope Far, Far Away	Hopkinton Middle School
2nd Place, Optical Society Award Broadcom Masters	Jonah Keates	Burn Maybe Burn	Bancroft School
2nd Place, Optical Society Award Broadcom Masters	Lauren McIlhenny	Environmentally Friendly Flocculants	Carlisle Public Schools
2nd Place, Optical Society Award Broadcom Masters	Amar Ruthen, Avi Ruthen	Winter Greens: Optimizing Insulation to Design an Energy-Efficient Winter Greenhouse	Carlisle Public Schools
2nd Place, Optical Society Award Broadcom Masters	Michele Shcremp	Improving the Efficiency of a Solar Cell	St. John the Evangelist
2nd Place, Optical Society Award Broadcom Masters	Amelia How	How Does CO ₂ Affect the Growth of Plants	Lesley Ellis School
2nd Place, Optical Society Award Broadcom Masters	Abigail Moisan	Genetically Engineered Pollinating Plants: Changes in the UV Spectrum	Maconomet Regional Middle School
2nd Place, Optical Society Award Broadcom Masters	Isha Gopal	Is That Seat Taken?	Oak Middle School
2nd Place, Optical Society Award Broadcom Masters	Virginia Shea	Electrostatic Precipitor	Littleton Middle School
2nd Place, Optical Society Award Broadcom Masters	Kyle Garcia-Rogers	Cracking Climate's Climate Conundrum: Carbon Dioxide Extraction Directly from the Atmosphere using Sodium Hydroxide	Andover School of Montessori

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2nd Place, Optical Society Award Broadcom Masters	Vibha Kamath	Evaporation Filtration!	Ben Franklin Charter School
2nd Place, Cabot Innovation Award Broadcom Masters	Sarah Bace	Balance in Ecosystems: Factors Affecting Dissolved Oxygen Content in Water	North Andover Middle School
2nd Place, Cabot Innovation Award Broadcom Masters	Saketh Mynampati & Tej Patel	Chirality: Twisting Light into a Bright Future	Locke Middle School
2nd Place, Cabot Innovation Award Broadcom Masters	Timothy Pinkhassik	Wearable Diagnostic Platform	Brown Middle School
2nd Place, Cabot Innovation Award Broadcom Masters	Andrea Danila	Distinguishing Fanfiction from Canonical Writing Using a Convolutional Neural Network	Sharon Middle School
2nd Place, Cabot Innovation Award Broadcom Masters	Amrita Thirumalai	Cymatics	St. Bernadettes School
2nd Place, Cabot Innovation Award Broadcom Masters	Madeleine Eisenthal	Eggcellent Eggs	Bancroft School
2nd Place, Cabot Innovation Award Broadcom Masters	Raceja Velavan	Extracting Proteins	St. Catherine of Siena Middle School
2nd Place, Cabot Innovation Award Broadcom Masters	Oumayma Dakhama	Effect of Sleep Position on Heart Rate	Islamic Academy for Peace
2nd Place, Cabot Innovation Award Broadcom Masters	Garima Prabhakar	Perovskite Solar Cells: Increasing Durability	St. Bernadettes School
2nd Place, Cabot Innovation Award	Virginia Braccia, Thalia Mourmoutis	Fire Drill	Newton Country Day School
2nd Place, Cabot Innovation Award	Johnathan Hanscom	Save Drinking Water!	Hopkins Academy
2nd Place, Cabot Innovation Award	Pranaya Srinivasan	The Most Effective Insulator of All	Foxborough Regional Charter School
3rd Place MSSEF & Pearson Book Award	Nathaniel Picard	Nature Inspired Solar Panel	Hampshire Regional High School

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3rd Place MSSEF & Pearson Book Award	Ablah Maryam Siddiq	Does Peer Pressure Affect Behavior or Morals?	Islamic Academy for Peace
3rd Place MSSEF & Pearson Book Award	Vaibhavi James	Algae Biofuel: Evaluation of Species Green Algae for Biofuel Production	Sarah W. Gibbons Middle School
3rd Place MSSEF & Pearson Book Award	Anish Gundimeda, Saiteja Thirakala	Sparks are Flying	Ben Franklin Charter School
3rd Place MSSEF & Pearson Book Award	Ana Rodrigues	What the Shell?	Taunton High School
3rd Place MSSEF & Pearson Book Award	Kayla Parrett	Which Environment Preserves Bananas the Longest	Parker Middle School
3rd Place MSSEF & Pearson Book Award	Sadie Krauzyk	What Cleaner Removes the Most Germs off Fruit	Holy Name School
3rd Place MSSEF & Pearson Book Award	Reilly Coleman	Botanical Batteries	St. Catherine of Siena Middle School
3rd Place MSSEF & Pearson Book Award	Adway Wadekar	The Pursuit of Happiness	Sarah W. Gibbons Middle School
3rd Place MSSEF & Pearson Book Award	Kala Garrido	Illusions of Memory	Hampshire Regional High School
3rd Place MSSEF & Pearson Book Award	Megan Raymond	Don't Worry Your Plants Will Be Happy	Newton Country Day School
3rd Place MSSEF & Pearson Book Award	Shriyaa Chittibabu	The Effects of Various Whitening Agents of Calcium Hydroxyapatite	Oak Middle School
3rd Place MSSEF & Pearson Book Award	Sage Antonio	Oxygenerator	Hampshire Regional High School
3rd Place MSSEF & Pearson Book Award	Mohammad Khan	Effects of Varying Levels of Greywater on the Growth of Medicago Sativa	Islamic Academy for Peace
3rd Place MSSEF & Pearson Book Award	Avery Woolbert	Fear the Burn	Newton Country Day School
3rd Place MSSEF & Pearson Book Award	Anzhuo Wang, Sophie Xu	Effects of Acid Rain on Growth of Cherry Belle Radish	Sarah W. Gibbons Middle School
3rd Place MSSEF & Pearson Book Award	Joshua Comstock	An Oxidation Situation	Kuss Middle School
3rd Place MSSEF & Pearson Book Award	Isabella Kierce	How Do Enzymes Break Down	Foxborough Regional Charter School
3rd Place MSSEF & Pearson Book Award	Dale Cover	Radiofrequency Radiation of Common Household Devices	Foxborough Regional Charter School

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3rd Place MSSEF & Pearson Book Award	Mahir Sowad	Using the Property of Adhesion to Collect Water from Air	Oak Middle School
3rd Place MSSEF & Pearson Book Award	Darren Belanger	Planes on Planes	Bancroft School
3rd Place MSSEF & Pearson Book Award	Anna Fahy	How Should Referees Pump Up Their Soccer Balls in Order To Compensate for Players of Varying Ages?	Pierce Middle School
3rd Place MSSEF & Pearson Book Award	Peter Tse	Sheet Music to L.E.D.'s: A Piano Aid	Hampshire Regional High School
3rd Place MSSEF & Pearson Book Award	Nexus Attiogbe	Which Solution Produces the Most Gas Through Electrolysis of Water	Sullivan Middle School
3rd Place MSSEF & Pearson Book Award	Tyler DeLaBarre	Anti-Theft Backpack	Ottoson Middle School
3rd Place MSSEF & Pearson Book Award	Benjamin Mihalovich, Alexandra Palmer, Jennifer Rowland	Lowering Coffee Acidity	St. Margaret Regional School
3rd Place MSSEF & Pearson Book Award	Aarav Mehta	The Lazy Gardener	Oak Meadow School
3rd Place MSSEF & Pearson Book Award	Georgia Brucato, Ashley Folz, Grace O'Malley	Mind Your Melon	Newton Country Day School
3rd Place MSSEF & Pearson Book Award	Jillian Scott	Robotic Wheelchair Arm	Hampshire Regional High School
3rd Place MSSEF & Pearson Book Award	Joseph Pannese	Experimental DIY Propellant Formulas: Thrust Nozzles & Supersonic Rocket Design	Rumney Marsh Academy
3rd Place MSSEF & Pearson Book Award	Naomi DeMauro	How Much Iron Is in Cereal?	Rumney Marsh Academy
3rd Place MSSEF & Pearson Book Award	Kaia Outzen	Super Spheres!	Bancroft School
3rd Place MSSEF & Pearson Book Award	Ankith Bharadwaj	Relationship Between Lung Capacity and Age	Young Einstein Science Club
3rd Place MSSEF & Pearson Book Award	Francisco Alicandri	What Can Make a Better Electromagnet?	BART Charter School

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3rd Place MSSEF & Pearson Book Award	Nora Giannetti	Modified Kitchen for Little People and Average Height People	Hampshire Regional High School
3rd Place MSSEF & Pearson Book Award	Olivia Preston, Gena Armstrong	Soda or a Beautiful Smile	St. Bernadettes School
3rd Place MSSEF & Pearson Book Award	Elinor Rosen	Automated Obstacle Recognition for the Visually Impaired	Heath School
3rd Place MSSEF & Pearson Book Award	Matthew Cichocki, James Gibbons	Dry Ice Rink	Dover-Sherborn Middle School
3rd Place MSSEF & Pearson Book Award	Abigail Buschini	Does age affect the average reaction time to color?	Hampshire Regional High School
3rd Place MSSEF & Pearson Book Award	Shreya Manikandan	What's In My Food?	Wood Hill Middle School
3rd Place MSSEF & Pearson Book Award	Sophia Garcia	It's Waving at You: Cell Phone Radiation	Susan B. Anthony Middle School
Honorable Mention	Sayedazhar Peerzade	Stove Alert	Advanced Math & Science Academy
Honorable Mention	Jason Gillis	Reducing the Spread of Infectious Diseases on Airplanes	Plouffe Academy
Honorable Mention	Nur Aksamija	Collision of Galaxies	Hopkins Academy
Honorable Mention	Rumaisa Abdulhai	Lego Mindstorms EV3D Printer	Oak Middle School
Honorable Mention	Rohit Dsouza	LifeAlert for Everyone	Carlisle Public Schools
Honorable Mention	Jessie Paradis Stern	Advances to Sonar	Hampshire Regional High School
Honorable Mention	Madhumita Nambiar, Niverdhya Cheruvari	SODIS	Oak Middle School
Honorable Mention	Farzana Haque	Affect of Drainage System	Plouffe Academy
Honorable Mention	Logan Gallagher	Evaluating the Influence of Birth Order Personality	St. John the Evangelist
Honorable Mention	Michaela Rock	Why Weight?	Hampshire Regional High School
Honorable Mention	Lorelei Hetzler	Let's Get Kicking: Speed of Soccer Balls	Kuss Middle School
Honorable Mention	Bobby Blute	WI-NOT	Sullivan Middle School

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Honorable Mention	Mallika Chari	The Relationship Between the Conductivity of Fruit and it Ripeness?	Saint Michael School
Honorable Mention	Harry Averill	Aircraft Leading Edge Control Surfaces	Ottoson Middle School
Honorable Mention	Alee Winkler	The Science of Sound	Plouffe Academy
Honorable Mention	Andrew Juan	Converting Potential Energy into Kinetic Energy in Roller Coasters	St. Francis Xavier Preporatory School & St. John Paul HS
Honorable Mention	Sadie Rippel, Angeli Teixeira	The Lipstick Project	Plouffe Academy
Honorable Mention	Allison Smith	A Not So Bright Future	Michael E. Smith Middle School
Honorable Mention	Sara Russell	Bacteria vs. Our Cleaners	Hampshire Regional High School
Honorable Mention	Anusha Prabhakar	Utility of Holly Basil Powder and Olive Leaf Extract for Making Plants Drought Tolerant	St. Bernadettes School
Honorable Mention	Esha Rakesh	Soil Erosion	Foxborough Regional Charter School
Honorable Mention	Tanisha Rajgor	Can a Rainbow Power My Robot?	Hopkinton Middle School
Honorable Mention	Jayvens Lebron	Asthma Alert	Trinity Catholic Academy
Honorable Mention	Sydney Ciano, Sarah Reyes	Bio-Bags Part 2: Decomposing Colors	Susan B. Anthony Middle School
Honorable Mention	Katarzyna Wisnauckas	Saving Society's Skin	Hampshire Regional High School
Honorable Mention	Alex Chou	A Greener Future with Thermoelectric Power	Boston Latin School
Honorable Mention	Kyle Greenwood	Generating the Power of H ₂ O: Using Thermoelectric Effect to Save Lives	Andover West Middle School
Honorable Mention	Tiffany Rawlston	Pascal Power	Sullivan Middle School
Honorable Mention	Grace Connelly	Nom Nom Aluminum!	St. Agatha School
Honorable Mention	Xerxis Palsetia	Visual Sensors	Wood Hill Middle School
Honorable Mention	Niall Powers O'zyurt	Moving Microbes	St. Catherine of Siena Middle School

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Honorable Mention	Meyer Rosen	Springy Sole	Andover School of Monterssori
Honorable Mention	Varshini Sundavesan	The Effect of the Amplitude and Wavelength of Tsunamis on How Far the Water will Reach Inland	Littleton Middle School
Honorable Mention	Julia DeAngelis	Hydrogen Peroxide and Seed Germination	Bancroft School
Honorable Mention	Kara Koska	Creating an Artificial Pancreas	All Saints Catholic School
Honorable Mention	Grant Brady-Lopez	Cooling a Soda	St. Paul's Choir School
Honorable Mention	Zophia Cherrier	Going Green as You Clean	Douglas Middle School
Honorable Mention	Alexandra Fisher, Celia Garnett	Adventures in Circuitry: An Aid for Every Grade	Flagg Street School
Honorable Mention	Zoe Price	Material Effects of Wi-Fi Signal	Boston Latin School
Honorable Mention	McRae Wiederer	Roof Strength	John D. O'Bryant School
Honorable Mention	Kyle Gwilt	A Rad(ish) Acid Rain Experiment	BART Charter School
Honorable Mention	Samuel Schumacher	The Great Deflategate Debate	Friedman Middle School
Honorable Mention	Sorochi Okwor	Heating With Style	Mario Umana Academy
Honorable Mention	Julia Stiles, Mina Utschneider	Time Perception	St. Bernadettes School