

2026 Brevard Mainland Regional STEM Fair



February 20
Merritt Square Mall

Welcome to the 2026



This Brevard Regional STEM Fair is affiliated with the International Science and Engineering Fair (Society for Science and the Public), the world’s largest Pre- College Science competition. We are also affiliated with the state’s largest academic STEM competition, the Florida State Science and Engineering Fair.

We are aligned with the goals of the state science fair, which are to foster and encourage students to pursue careers in science, engineering, mathematics and research.

Students have experienced science through original research, have practiced scientific thinking and learned scientific processes. These skills will advance them in their educational and career goals in STEM (science, technology, engineering and mathematics) or in any field they choose.

Science research is related to real-world issues. It requires a thoughtful critique of all aspects of investigations and provides extensive opportunities for designing and executing investigations. Our goal is to help students learn and to communicate what they have learned with others.

“The true worth of an experimenter consists in his pursuing not only what he seeks in his experiment, but also what he did not seek.” – Claude Bernard

Cover photo collage was created using Adobe

Brevard Mainland Regional STEM Fair

February 20, 2026 Merritt Square Mall, Merritt Island, Florida

*To the Participants, Research Teachers, Sponsors, Judges and Visitors of the
Brevard Mainland Regional STEM Fair*

Welcome to the Brevard Mainland Regional STEM Fair. The exhibits on display are the result of countless hours of work on the part of our students. The high quality of these exhibits is the direct result of a commitment on the part of all concerned to the pursuit of excellence in science education.

The amount of national and international recognition that Brevard receives from science competition and the science community is further evidence of the dedication of students, research teachers, students' families and Brevard Public Schools toward the goal of excellence in all fields. We thank all of you for helping make this STEM Fair a success.

Debbie Austin, Chelsea George, & Dr. Peter Gay, Brevard Regional Fair Directors

Amanda Taylor, Mainland Fair Director

Special Thanks to:

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Brevard Mainland Regional STEM Fair

February 20, 2026 Merritt Square Mall, Merritt Island, Florida

Special Awards Sponsors

The Participants, Research Teachers, and Directors of the 2026 Brevard Mainland Regional STEM Fair would like to thank the following companies and organizations for providing awards.

Special Thanks to Our Key Sponsors

Florida Institute of Technology

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Brevard Zoo

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Florida Association of Science Teachers, FAST

Genius Olympiad

Florida Water & Pollution Control Operators Association

The Indian River Lagoon Coalition

Intel Excellence in Computer Science

Intel ISEF

Justin Lauer Award

Mainstream Engineering

Mu Alpha Theta

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Yale Science and Engineering Association

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The participants, research teachers, and directors of the 2026 Brevard Mainland Regional STEM Fair would like to thank the following companies and organizations for providing judges:

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Tensor Engineering
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United States Air Force
United States Army
United States Navy
US Space Force
University of Florida
University of Florida, Brevard County Extension
Wabtech Corporation

Animal Sciences – ANIM

Senior Division – 9 Entries

- | | | |
|-----|---|-------------------------------|
| 101 | A'Lona Carrion
The Effects of Energy Drinks on Planaria Physiology | Astronaut High School |
| 102 | Kenzie Dabney & Renee Venticinqu
A Novel Device Capable of Administering Electromagnetic Signals to Deter Sharks from Approaching Populated and Hazardous Regions | Space Coast Jr/Sr High School |
| 103 | Allen Deatherage
Detecting Microplastics in Emeritas talpoida | Astronaut High School |
| 104 | Ella Drapeau
Advancing Population Monitoring Through AI-Based Recognition and Innovative Counting Techniques on Pelican Island | Melbourne High School |
| 105 | Aubrey Foreman
Salty Survival: How Ghost Shrimp are Affected by Different Salinities | Viera High School |
| 106 | Logan Green
A Novel Inventions for Reducing Snail Infestations | Rockledge High School |
| 108 | Emma Herold & Peyton Mason
Unlock the Snack: The Race of Dog Puzzles | Space Coast Jr/Sr High School |
| 109 | Joy Parrott
Reflections of oyster filtration by way of microplastic concentrations in regard to environmental implications and solutions | Eau Gallie High School |
| 110 | Sofia Rodríguez
Effects of Infrared Light and Electroshock Therapy on Regeneration and Stem Cell Activity in Brown Planaria (Girardia tigrina) Year Three | Melbourne High School |

Animal Sciences – ANIM

Junior Division – 12 Entries

- | | | |
|-----|---|-------------------------------|
| 151 | Jackson Arrieta
How Do Environmental Contaminants Impact Ghost Shrimp Heart Rate? | Space Coast Jr/Sr High School |
| 152 | Kelsey Donaldson | Johnson Middle School |

Crustaceans Improve the Environment

- | | | |
|-----|--|-------------------------------|
| 153 | Kellen Genova
Can the Type of Food Affect Egg Production in Chickens? | Space Coast Jr/Sr High School |
| 154 | Angel Gray
What foods do meal worms consume the fastest | Johnson Middle School |
| 155 | Jackson Mocere
The effects of heat on snail behavior | Johnson Middle School |
| 156 | Sarah Organ
Sweet Incentives: Investigating Sugar Water's Effect on Cockroach Maze Performance | Kennedy Middle School |
| 157 | Prince Ashkii Paras
Larry Bird Junior, Lobster, the Experiment | Johnson Middle School |
| 158 | Luna Powell
The Time It Takes to Blend: Anole Color Change Across Habitats | Space Coast Jr/Sr High School |
| 159 | Avery Roush
Cue the Food: Exploring Learned Behavior in Fish Through Signal-Based Feeding Training | Space Coast Jr/Sr High School |
| 160 | Tricia Singelton
Ecotoxicology of Microplastics and Daphnia Magna | Space Coast Jr/Sr High School |
| 161 | Madeline Robinson
Tiger Shark Feeding Patterns; Does climate change affect it? | Viera Middle School |
| 162 | Alicia Panyathip
Thamnocephalus Platyrurus and Measures of Salinity | Johnson Middle School |

Behavioral & Social Sciences – BEHA

Senior Division – 6 Entries

- | | | |
|-----|---|-----------------------|
| 201 | Jeffrey Devine-Gipson
Calorie Estimation in Relation to Obesity | Rockledge High School |
| 202 | Adalyn McClelland
What Are The Effects of Energy Drinks? | Astronaut High School |

203	Ella Morrissey ADHD vs Neurotypical Teenagers: Reactions to Simulated Stressful Car Situations.	Melbourne High School
204	Olivia Qualis The Effects of Hormonal Birth Control on Decision-Making Among Women of Reproductive Age	Viera High School
205	Samantha Santillan The Correlation between Personality Traits and Political Leaning	Melbourne High School
206	Catherine Shy Imagine That! How Visualization Shapes Success	Melbourne High School

Behavioral & Social Sciences – BEHA

Junior Division – 2 Entries

251	Maddie Felker Does the type of music someone listens to correlate with their personality?	Space Coast Jr/Sr High School
252	Orion Slonim-Best Do I Look Like I'd Lie to You?: Can humans identify trustworthiness based on facial features?	Kennedy Middle School

Biomedical & Health Sciences – BMED

Senior Division – 5 Entries

301	Liam Hauser Quorum sensing probiotic inhibitors	Viera High School
302	Pierce Hilderbrand & Addison Thompson The Effect of Neurogenesis-Promoting Compounds on Caenorhabditis elegans to Promote Synaptic Elasticity	Astronaut High School
303	Archit Kulkarni Designing a Cost-Effective Machine Learning Framework to Differentiate Renal Calculi from Ultrasound Artifacts Using Synthetically Generated Ultrasound Datasets: Year 2	Melbourne High School

- 304 Marilyn Ortiz-Gutierrez Rockledge High School
Using a Researched Based Patient Flow Chart to Minimize the Spread of MRSA
- 305 Penny Pryor Space Coast Jr/Sr High School
Glucose, Caffeine, Garlic Verses Stem Cells: A Planarian Regeneration Study

Biomedical & Health Sciences – BMED

Junior Division – 8 Entries

- 351 Demry Gamradt & Liana Saltsman Space Coast Jr/Sr High School
Exploring the Effect of Acetaminophen Forms on Gastric Health
- 352 Hannah Kerr Space Coast Jr/Sr High School
How Does the Role of Beverages Affect Kidney Stones?
- 353 Abrielle Mazes Cocoa Jr/Sr High School
Does men or women take in more electrolytes
- 354 Morgan McDonald Johnson Middle School
Can Synsepalum Dulcificum help people who are required to take medication that alters their taste be able to eat
- 355 Cayden Shugg Park Avenue Christian
Which antacid raises the pH of stomach acid the furthest to alleviate heartburn?
- 356 Chloe Venuto Space Coast Jr/Sr High School
Microbial Balance: The Impact of Natural vs. Synthetic Antibiotics on Lactobacillus Acidophilus
- 357 Callie Warren Kennedy Middle School
Smile Sabotage: Exploring Energy Drink Effects on Teeth
- 358 Rowenna Massimini Johnson Middle School
Investigating Melatonin's Effects on Freshwater Planaria

Cellular/Molecular Biology & Biochemistry – CMBI

Senior Division – 3 Entries

- 401 Wesley Kettering Melbourne High School
The Effect of Silver and Cerium Oxide Nanoparticles on Wound Regeneration in *Drosophila melanogaster*
- 402 Riya Reddy Viera High School
Effect of Hydrogen Peroxide on Curli Fiber Aggregation in *Escherichia coli* as a Novel Approach for Modeling Oxidative Stress-Induced Protein Aggregation in Alzheimer's Disease
- 403 Jayna Lauer Homeschool
The Golden Model: Aurum Nanoparticles in Enzyme Adsorption to Demonstrate Bioconjugation

Cellular/Molecular Biology & Biochemistry – CMBI

Junior Division – 2 Entries

- 451 Trevor Blaszkowiak Johnson Middle School
The ways to stop Culicidae and the effects culicidae have on Ma
- 452 Jazlyn Williams Space Coast Jr/Sr High School
Feeding the Ferment: Investigating the Impact of Sugar Levels on Yeast Activity and CO₂ Production

Chemistry – CHEM

Senior Division – 4 Entries

- 501 Rafif Alshikh Astronaut High School
Alternative Fuel: Water to Fuel to Water
- 502 Maxwell Cope Space Coast Jr/Sr High School
Aqueous Organic Pollutant Degradation in an Upcyclable, Shear Stressed Antibiofilm PLA Framework Validated with Colorimetric μ PAD Analysis & Machine Learning for Accessible Detection and Elimination of Carcinogens in Disadvantaged Regions

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|-----|---|-------------------------------|
| 503 | Walker Draulis
Plastisol vs. Rubber (Year 2) | Viera High School |
| 504 | Jordan Emmaneul Laurente
Investigating the Relationship between Sugar Conservation and Fermentation Speed | Space Coast Jr/Sr High School |

Chemistry – CHEM

Junior Division – 6 Entries

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|-----|--|-------------------------------|
| 551 | Derek Atkinson
Rust Resistance: Evaluating Filtration Methods to Delay Oxidation in Brackish Water | Space Coast Jr/Sr High School |
| 552 | Jackson Friedl
Do the pigments in sodas stain teeth? | Park Avenue Christian |
| 553 | Joseph Mitchell
Melting | Cocoa Jr/Sr High School |
| 554 | Avigayil Shamir Nemeth
The Effects of Rising pH Levels on California Sea Hares | Johnson Middle School |
| 555 | Chloe Tutino
Electrolyte or Electro-lie? The Thirsty Truth About Sports Drinks | Kennedy Middle School |
| 556 | Annabelle Wiegmann
Effects of Contaminants on Luminol Glow | Space Coast Jr/Sr High School |

Earth & Environmental Sciences – EAEV

Senior Division – 10 Entries

- | | | |
|-----|---|-----------------------|
| 601 | Jayden Aguilar
The Effect of School Bus Exhaust on Air quality | Melbourne High School |
| 602 | Skyy-vera Fludd
Tiny Cleaners: Using Duckweed (Lemna spp.) to Reduce Nitrates and Turbidity in Polluted Water | Astronaut High School |

603	Emma Hendershot Water quality and prevention of overgrowth from aquatic plants	Astronaut High School
604	Delaney Hermes Loop-Mediated Isothermal Amplification (LAMP) Towards Higher-Sensitivity Environmental Monitoring of Pathogenic Waterborne Vibrio Species and Water Quality: A Case Study on the Indian River Lagoon, FL	Space Coast Jr/Sr High School
605	Caden Lato Buffering the Impact: Can Natural Soil Amendments Reduce Acidic Runoff from Fertilized Soil	Space Coast Jr/Sr High School
606	Emmelene Laxton Using Zophobas atratus, Zophobas morio, Tenebrio molitor, and Tenebrio obscurus to Break Down PS, PE, and PP plastics	Melbourne High School
607	Connor McCorkle Factors Affecting The Rapid Intensification Of Tropical Cyclones In The North Atlantic Basin	Melbourne High School
608	Evan Mellor Cellulose Nanofibril-Based Adsorbents for the Removal of Copper Ions and Methylene Blue from Aqueous Solutions	Melbourne High School
609	Wyatt Pearce Lignocellulosic-Based Strategies Towards Eutrophication Mitigation of Aquatic Ecosystems: A Case Study on the Indian River, Florida	Space Coast Jr/Sr High School
610	Serenity Snowden Coral Bleaching Remediation Through Slow Release of Zooxanthelle	Melbourne High School

Earth & Environmental Sciences – EAEV

Junior Division – 8 Entries

652	Eve Gannon Mangroves! Florida's First Line Of Defense.	Johnson Middle School
653	Destiny Griffis Nature's filter	Cocoa Jr/Sr High School

655	Marissa Mitsakos Eco-Friendly Bioremediation Techniques For Absorption of Excess Phosphate Nutrients In The Indian River Lagoon, Towards Preventing Harmful Algal Blooms: A Comparative Analysis	Space Coast Jr/Sr High School
656	James Strother Water movement	Cocoa Jr/Sr High School
657	Lily Hicks Brita Water Filtration Comparison	Viera Middle School
658	Abigail Escobar How does iron affect algae growth?	Viera Middle School
659	Elizabeth Boese What types of trees have been depleting over the years, and how has it affected local Florida ecosystems?	Johnson Middle School
660	Isabella Bonaiuto The wonders of microplastics and Astreopora Coral	Johnson Middle School

Engineering – ENMS

Senior Division – 7 Entries

701	Kush Chovatia The Effect Of Wind Turbine Blade Design On Electrical Energy Output	Melbourne High School
702	Kaedin Delaney Optimizing Rowing Performance with Modification of Shell Weight, Stability, and Properties by Determining Modifications of Best Fit	Melbourne High School
703	Kahlia Fox Sustainable Biomass Fueled Space Travel	Space Coast Jr/Sr High School
704	Saul Gilstad Microfillers For Macro Strength: Advancing Concrete Stability Through Microfiller Addition	Melbourne High School
705	Raistlin Mchatton Using a Novel MMA Glove Design to Reduce Wrist and Hand Injuries.	Rockledge High School

706 Sophie Schuh Viera High School
Revolutionizing Marine Mammal Survival Through Multi-Spectrum Imaging, AI-Powered Detection and Innovative Disentanglement Strategies

707 Jamontae Strain Astronaut High School
How Does Spark Plug Gap Affect Spark Energy Performance?

Engineering – ENMS

Junior Division – 10 Entries

751 Henry Burlingame Park Avenue Christian
Athletic Insoles and absorption of impact energy to protect feet and legs of athletes

752 Stephen Courage Park Avenue Christian
Developing impact-resistant material to protect electronic devices in case of accidental dropping on hard surfaces.

753 Elijah Davis Park Avenue Christian
The effect of basketball elasticity on bounce

754 Tristan Kaspar Johnson Middle School
The Solar Transporter

755 Braedyn Linehan Space Coast Jr/Sr High School
Battle of the Bridges: A Study of Design and Durability

756 Bella Lohr Kennedy Middle School
Bounce Back: A Phone Case Engineered to Outlast Your Oops Moments

757 Caleb Lord Park Avenue Christian
Basketball rebounders and Return Accuracy

758 Colton Olivo Park Avenue Christian
Dry-Ice Powered Cars

759 Zayden Sasnett Space Coast Jr/Sr High School
The Awesome Solar Powered Aircraft

760 Declan Smith Park Avenue Christian
A Life Jacket built with bubble wrap and weighing less than current on market life jackets

Environmental Engineering – ENEV

Senior Division – 8 Entries

802	Taylor Birkenstock Using a Self-Built ROV for the Purpose of Seagrass Respiration	Rockledge High School
803	Max Guadarrama Cleaner Cars, Cleaner Water: Designing a More Efficient Car Wash Recycling System	Astronaut High School
804	Constance Jean Striving for Sustainability: A Year-Two Comparative of a Cocos nucifera-Mycelium Bioplastic	Melbourne High School
805	Triniti Kaufman Measuring the Effectiveness of Upcycled Denim Geotextile Mats at Reducing Soil Erosion	Rockledge High School
806	Ainsley McInnis How can Pleurotus ostreatus be used in landfills to help reduce plastic pollution?	Astronaut High School
807	Jaxson Murray Rust at Sea: How Water Type Affects Boat Corrosion	Viera High School
808	Aswath Rajesh BioRegen Polymer 3.0: Advancing Biopolymer Innovation with Cross Linking Agents (Tannic Acid, Ferulic Acid, Citric Acid) for Improved Mechanical and Environmental Properties)	Viera High School
809	Hajar Rizk Optimizing Solar Panel Efficiency: Comparative Study Of Cooling Techniques	Melbourne High School

Environmental Engineering – ENEV

Junior Division – 5 Entries

851	Desmond Hodges Harnessing the Wind: Finding the Best Number of Blades on a Turbine	Space Coast Jr/Sr High School
852	Layla-Rose Ousley & Shelby Pearce Clean Drops Clear Impacts: How Simple Filters Make a World of Difference	Space Coast Jr/Sr High School

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| 853 | David Torres
Homemade biodegradable fire-fighting foam | Park Avenue Christian |
| 854 | Jakson Walton
The use of electrolysis in a hydrogen engine to supply hydrogen for production of excess electricity to continue the electrolysis reaction | Park Avenue Christian |
| 855 | Elena Malofsky
Water Monitoring Buoy | Madison Middle School |

Intelligent Machines, Robotics & Systems Software – IMRS

Senior Division – 7 Entries

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|-----|--|-------------------------------|
| 901 | Wesley Jacobson
How does integrating mult-modal cardiac data MRI+EKG affect the precision and reliability of AI-assisted heart-disease diagnosis within the U.S. healthcare systems? | Viera High School |
| 902 | Lucas Kostrzewa
Sensor Fusion in Action: Enhancing Mimio Robot Autonomy with Environmental Feedback: Self Driving Car - Year 3 | Space Coast Jr/Sr High School |
| 903 | Darsh Kulkarni
GAN with a Self Evolving Neural Network System for Zero Day Cyberattack Detection | Melbourne High School |
| 904 | Darshan Patel
Development of an AI-Driven Cyber Defense System for Real-Time Threat Detection and Autonomous Patching | Rockledge High School |
| 905 | Daviez Sanabria
Robot Kinematic Walking | Astronaut High School |
| 906 | William Tucker
Providing a tool to make soldiers safer | Viera High School |
| 907 | August Zegarksi
Testing Perception: Can Volunteers Differentiate Between Human- and AI-Written Essays? | Eau Gallie High School |

Intelligent Machines, Robotics & Systems Software – IMRS

Junior Division – 5 Entries

951	Jaheem Adderley, Christian Lopez, & Kener Solis The comparison between the three most popular AIs	Cocoa Jr/Sr High School
952	Shahan Ahmed Gearing Up with Gear Ratios	Space Coast Jr/Sr High School
953	Ray Bonanza Using AI to map Agricultural Fields	Space Coast Jr/Sr High School
954	Devin Shropshire Spike and Sprinkle	Space Coast Jr/Sr High School
955	Julio Solis & Carlos Vasquez 3D RC Tesla Car Solar Paneled	Cocoa Jr/Sr High School

Mathematics & Computational Sciences – MACO

Senior Division – 5 Entries

1001	Madeline Edwards Celestial Distortions: A Computational Framework for Investigating and Interpreting Transit-Timing and Morphological Anomalies in TESS Exoplanet Light Curves	Astronaut High School
1002	Joslyn Garrett Atmospheric Noise as a Source of Entropy for the Generation of Random Numbers	Astronaut High School
1003	Anastasiia Maksimova Creating a Machine Learning Algorithm to Identify Contrails from Geosatellite Imagery	Rockledge High School
1004	Wasi Shaik Development of a Resource-Efficient Hybrid Algorithm Learning Agent for Optimal Maze Solving	Melbourne High School
1005	Kaya Watson Calculating Fairness in Voting Systems Using Social Choice Theory	Melbourne High School

Mathematics & Computational Sciences – MACO

Junior Division – 1 Entry

- 1051 Jace Lauer Homeschool
Analyzing Mathematical Patterns in Resistor Networks

Microbiology – MICR

Senior Division – 6 Entries

- 1101 Kail Duncan Viera High School
Can the sunlight be used to disinfect bacteria from Water
- 1102 Robin Harbie Space Coast Jr/Sr High School
The Relationship Between Moisture Content and Mold Development on Bread
- 1103 Carl Jacobs Cocoa Jr/Sr High School
Testing E. coli survival with salt
- 1104 Charlotte Martin Melbourne High School
Antibacterial Properties of Ascidiacea Extract
- 1105 Madalyn Nice Eau Gallie High School
Influence of Oceanic Thermal Stress on Algal Bloom Formation and Intensity
- 1106 Leo Swingle Rockledge High School
The Effect of Medicinal Herbs on C.elegans

Microbiology – MICR

Junior Division – 8 Entries

- 1151 Zoe Canny Kennedy Middle School
Microbe Magnet: What Happens When You Skip the Scrub?
- 1152 Nathan Cole Space Coast Jr/Sr High School
The Influence of Light Color on Fungi Development

1153	Giaus Garcia Investigating Bacterial Growth on Different Paint Types	Space Coast Jr/Sr High School
1154	Brody Hadwiger & Connor Ton Do 99% bacteria disinfectant spray work like they say they do?	Space Coast Jr/Sr High School
1155	Jake Harden Are there Natural antibiotics that are better than pharmaceutical antibiotics	Space Coast Jr/Sr High School
1156	Kylie Pearce What disinfectants kill Escherichia coli?	Johnson Middle School
1157	Stephen Snider The Effects of E. Coli When Under Different Colored Lights	Johnson Middle School
1158	Nathan Waldo Examining different chemical compositions and their influences on bacteriophage reproduction	Space Coast Jr/Sr High School

Physics & Astronomy – PHYS

Senior Division – 7 Entries

1201	Colton Bishop Bullet Proof Armor Testing	Astronaut High School
1202	Enzo Carter An Analysis of Fiber-Optic Induced Decoherence in Long Distance Quantum Communication Channels	Melbourne High School
1203	Khush Hiragar Electric generators with magnets	Viera High School
1204	Raz Hollenback How Does Putting a Violin in Different Temperature Environments Affect its Tuning and Frequency Ratios?	Space Coast Jr/Sr High School
1205	Luke Hoozer Developing an Aircraft Powered Solely by Cutting Edge Atmospheric Ion Thruster: A 3 Year Study	Astronaut High School

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|------|---|-----------------------|
| 1206 | Kai Mauro
Assessing Rotational and Photometric Properties of Understudied Near-Earth Asteroids Through Noise and Cadence Analysis | Melbourne High School |
| 1207 | Luke Rodgers
Developing an Aircraft Powered Solely by Cutting Edge Atmospheric Ion Thruster: A 3 Year Study | Viera High School |

Physics & Astronomy – PHYS

Junior Division – 2 Entries

- | | | |
|------|---|-----------------------|
| 1251 | Accari Humes
The Magic Of The Galaxy | Johnson Middle School |
| 1252 | Brison Walz
The Optimal Distance Between NASCAR Cup Cars for Beneficial Draft Effects | Park Avenue Christian |

Plant Sciences – PLNT

Senior Division – 8 Entries

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|------|--|-----------------------|
| 1301 | Michelle Amyot & Arabella Ray
The Effect of Water Currents on Marine Plant Growth: Investigating the impact of Water Movement on Jungle Val | Viera High School |
| 1302 | Kai Elkins
Determining the Effectiveness of Cellulase to Assist in the Bio-Control for Hydrilla verticillata via Lymnaea stagnalis, with Elodea Canadensis as a Substitute | Rockledge High School |
| 1303 | Joel Gauthier
Radiation Resistance in Dichotomous Plants: Arabidopsis Thaliana, Soybean (Glycine Max) | Astronaut High School |
| 1304 | Dean Ivy & Alexis Thomas
How do varieties of irrigation systems alter the growth rates of the Wisconsin Fast Plants? | Viera High School |
| 1305 | Julia LoPresto
The effect of Fertilizers on the Mentha x piperitas growth | Viera High School |

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| 1306 | Lilliana Miller
From Roots to Reps: A Study of Electrolyte Effects on Plant Cell Rigidity and Human Muscle Performance | Space Coast Jr/Sr High School |
| 1307 | Teagan O'Flaherty
Artificial Nectar Types and their Allure to Local Butterflies | Astronaut High School |
| 1308 | Jake Raisch
Floral and Leaf Pressings to Determine Biological Diversity of Fungi and Bacteria in Native Florida Plants | Astronaut High School |

Plant Sciences – PLNT

Junior Division – 7 Entries

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|------|---|-------------------------------|
| 1351 | Kyle Atkinson
The Effects that Nutrient Solutions have on Hydroponics | Space Coast Jr/Sr High School |
| 1352 | Fletcher Culleney
What nutrient solution makes the plant grow the tallest in hydroponics? | Space Coast Jr/Sr High School |
| 1353 | Alaynah Dauphinee
The Hidden Helpers: How Soil Organisms Impact Plant Growth? | Space Coast Jr/Sr High School |
| 1354 | Aria DeSouza & Skylar Maggie
The Effect Colored Light has on the Rate of Photosynthesis | Space Coast Jr/Sr High School |
| 1355 | Logan Herrnkind
How do Different Soil Additives Affect Plant Growth? | Space Coast Jr/Sr High School |
| 1356 | Amelia Lankford
How to Limit Fruit Spoilage | Melbourne High School |
| 1357 | Mazie Baker
Tomato Plants vs. Tobacco Hornworms | Johnson Middle School |

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Judge Fran Jamieson Way
Melbourne, FL 32940-6601

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saxenmeyer.j@brevardschools.org

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Rosemary Browning
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Browning.Rosemary@brevardschools.org

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