

## 2017 Tri-County Science & Technology Fair Award Winners

AWARD	NAME	PROJECT TITLE	SCHOOL
<b>Elementary School Biology</b>			
Excellent	Thehara Ubayawardena	How Best to Make Plants Grow?	F.E. Bellows
Excellent	Jasmine Wallis	Does Sugar Make You Weak?	Garrison School
<b>Elementary School Chemistry</b>			
Outstanding	Samina Quli	How Does Soda Affect Your Teeth?	F.E. Bellows
Outstanding	Nandita Deendyal, Jazyla Fernandez	pH of Bottled Water	PEARLS
Excellent	Della John, Mikayla Antepara	Gummy Bear Breakdown	PEARLS
<b>Elementary School Earth/Space Sciences</b>			
Excellent	Ella Grann	How Does Warmer Climate Impact Sea Levels?	F.E. Bellows
Excellent	Cormac Smith	Climate Cycles	PEARLS
<b>Elementary School Engineering &amp; Technology</b>			
Outstanding	Shaleen Thaker	Color Guided Robotic Car	Main Street School
Outstanding	Carys Mc Grory	What Is the Effect of the Temperature of Butter on Baked Cookies?	F.E. Bellows
Excellent	Erick Monge	Levitating Magnets	School 30
<b>Elementary School Environment</b>			
Outstanding	Natasha Gozlan	How Do Greenhouses Help Plants Grow Taller?	F.E. Bellows
<b>Elementary School Health &amp; Medicine</b>			
Excellent	Marco Griffo, Boden Sivere	How Much Methane Do Different Foods Produce?	F.E. Bellows
<b>Elementary School Physics</b>			
Outstanding	Michael Messina, Mark Di Maggio	Do Ferrofluids Work Differently from Water?	F.E. Bellows
Outstanding	Ashwani Pothen	Battery That Makes Cents	PEARLS
Excellent	Anthony Drenzo	Compound Pulley	School 30
Excellent	Charles Rowe, Frank Lanza	Static Electricity	Garrison School

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AWARD	NAME	PROJECT TITLE	SCHOOL
<b>Middle School Biology</b>			
1**	Mateo Yepes	Water Purification	George Fischer Middle School
2**	Peter Nicholas	The Bioremediation of Plastic	Rye Neck Middle School
2***	Gabi Lopez, Isabel Montes	How Does Different Color Light Affect Plant Growth?	St. Augustine
3***	Leah Sherbansky	Where the Wild Things Grow	Pelham Middle School
3	Anne "Julie" Van Roijen	Do People's Heart Rates Change When They See Different Colors?	F.E. Bellows
***	Anika Bansal	The Effect of Ripening on Sugar Level in Different Fruits	Edgemont Jr/Sr HS
<b>Middle School Chemistry</b>			
1	Derek Ryan	Which Type of Carbohydrate Is Best Metabolized by Yeast and How Does the Concentration Affect the Rate of Fermentation?	F.E. Bellows
2**	Misha Patel	Exothermic Reaction Rates	Edgemont Jr/Sr HS
3	Sinead O'Sullivan	Epic Corrosion	George Fischer Middle School
**	Julia Meyerson	Yeast Fermentation	Pelham Middle School
<b>Middle School Earth/Space Sciences</b>			
1**	Charlotte Dinitz	Mud Power	Garrison School
2***	Sophia Maron Schaeffer	Skyglow	PEARLS
3	Sankar Gopalkrishna	Satellite Slingshot	Edgemont Jr/Sr HS
<b>Middle School Engineering &amp; Technology</b>			
2	Anup De	Building Failure	PEARLS
3	Dayana Bubb, Anna Maulucci	Will the Type of Fin Affect How High a Bottle Rocket Will Fly?	Rye Neck Middle School
<b>Middle School Environment</b>			
1**	Eesha Thaker	Ground Level Ozone in Irvington	Irvington Middle School
2	Kyle Ryan	How Do Nutrients in Fertilizers Affect the pH and O2 Levels of Aquatic Systems?	F.E. Bellows
3***	Jessica Deluise	Soil Layers and Water Absorption	School 30
<b>Middle School Health &amp; Medicine</b>			
2***	Kathleen O'Sullivan	Wii All Want to Play	George Fischer Middle School
3	Constancia Litwak, Isabel Palacios	Whose Skin Becomes Wrinkly the Fastest?	F.E. Bellows
***	Amelia Landis	What Is the Most Effective Way to Kill Bacteria?	John Jay Middle School
<b>Middle School Math &amp; Computers</b>			
2***	Amadea Toutoungis	How Does Air Resistance Affect an Active Cannonball?	Rye Neck Middle School
2	Linus Ringstad	The Effects of Frequency on Visible Light	Rye Neck Middle School
3	Esha Shenoy	Obesity and Exercise: A Statistical Look	Irvington Middle School
<b>Middle School Physics</b>			
2	Sebastian Proano	Viscosity of Motor Oil	PEARLS
2	Deeya Patel, Linlee Mangiardi, Jessica Petruccio	What's the Matter with Oobleck?	St. Augustine
3	Joel Alexander	The Mumpamba Effect	PEARLS
3	Adrina Tiju	What Makes Ice Melt Fastest?	PEARLS
3	Julia Plawiak	Temperature, Viscosity, and Surface Tension	PEARLS
<b>Middle School Psychology</b>			
1*	Helena Lew-Kiedrowska	Analyzing Ways of Memorizing	Edgemont Jr/Sr HS
2**	Naomi Young	The Relationship Between Mindsets, Praise, and a Student's Decision to Challenge Themselves	Rye Neck Middle School
3	Jacob Goldman Wetzler, Lionel Muench	How Age Affects Enthusiasm	Farragut Middle School
***	Julia Flood	Does Gender Affect Mathematical Ability?	Rye Neck Middle School
<b>* Judge Edith Miller Excellence in Education Award for Top Middle School Award (Advances as nominee to Broadcom Masters competition)</b>			
<b>** Advances as nominee to Broadcom MASTERS competition</b>			
<b>*** Alternate for Broadcom MASTERS</b>			

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AWARD	NAME	PROJECT TITLE	SCHOOL
<b>High School Biology</b>			
1**	Swetha Sriramoju	Structure Based Drug Design with Diabetic Retinopathy and RAGE	Ardley HS
2***	Deepa Mistry	Synergy of T Helper Cells Th17 and Th22 with Th2 as Possible Factors in the Onset and Development of Atopic Dermatitis	Hendrick Hudson HS
3	Sarina Iraj	The Benefits of The Grape - Derived Polyphenol, Resveratrol, on the Lifespan of Drosophila Fed Diets High in Fat	Harrison HS
<b>High School Chemistry</b>			
2	Marisa Kim	Creation of a Low-Cost Heavy Metal Water Purification System via a Graphene Oxide Composite Membrane, with Incorporated TiO <sub>2</sub> -Glyphosate Nanostructures.	Rye Country Day School
3	Alexander Magid	Near-IR Active Nanomaterials for Medical Application	Scarsdale HS
<b>High School Earth-Space Sciences</b>			
1***	Michael Winitch	Significance of Atreipus and Digit I in Early Dinosaur Phylogeny	Edgemont HS
2	Dheivanai Moorthy	Analyzing Biomarkers for Thermal Maturity in Dolostone and Sandstone	Suffern High School
3	James Brandfonbrener	The Capture of Black Holes by a Quasar Accretion Disk as a Source of Gravitational Waves	Edgemont HS
<b>High School Engineering &amp; Technology</b>			
2	Jainil Sutaria	Increasing the Thermal Conductivity of Cement via a Silicon Carbide Aggregate	Ardley HS
3	Jasper Katzban	Room Scale Virtual Reality Analytics to Improve the User Experience	Putnam Valley HS
<b>High School Environment</b>			
1**	Emily Olivier	The Effects of Hydrilla verticillata on Water Quality in the New York Region	Yorktown HS
2	Karen Zaklama	Optimizing butanol production: bacterial growth and production in different nutrient environments	Scarsdale HS
3	Ryan Usai	Detection of Lima Bean Pathogen Phytophthora capsici in Soybean Fields	Putnam Valley HS
<b>High School Health &amp; Medicine</b>			
1***	Margaret Zhong	The Novel Therapeutic Implications for Nimodipine in Alzheimer's Disease	Ardley HS
2	Charles Panzarella	Using Optokinetic Reflexes to Quantify Vision in Non-Communicative Pediatric Patients	Westlake HS
3	Matthew Ponticello	Preparing and Testing Immunomagnetic Beads for Cancer Hyperthermia	Rye Neck HS
3	Joelle El Hamouche	Investigating the EET-PGC-1 $\alpha$ -HO-1 axis: The role of CO in mitigating obesity and diabetes through regulation of adipocyte differentiation	Westlake HS
<b>High School Math &amp; Computers</b>			
1	Walter Wacaser	Increasing the Robustness of Speech Processing Systems	Putnam Valley HS
2	Federico Reyes Gomez	Design of a secure symmetric key block encryption algorithm using reversible partitioning cellular automata	Edgemont HS
2	Katie Yang	A Linguistic Approach to the Sentiment Analysis of Currency Markets	Scarsdale HS
3	Matthew Gofman	Detecting Antecedents of Boredom in Students Using Intelligent Tutoring Systems	Hendrick Hudson HS
3	Griffin Wallick	The Use of Linear Modeling to Predict the Success of NFL Quarterbacks	John Jay High School
<b>High School Physics</b>			
1***	Claire Gillespie	The Magnetization of a System under Toom's NEC Rule and its Behavior at the Critical Temperature	Scarsdale HS
<b>High School Psychology</b>			
1*	Caitlin O'Donnell	S.O.S (Students Overcoming Stress) Gaining Insight and Addressing High School Student Stress: An Exploratory Study Analyzing the Different Modalities of Stress on Adolescents	Yorktown HS
2***	Lauren Cole	Age-related Differences in Emotional Reactivity and Regulation	Harrison HS
3***	Samantha Horowitz	Differential Perspectives on the Impact that Doctor-Patient Relationships have on Patients with Epilepsy	Yorktown HS
<b>* Marilyn Reiner Science in Education Award for Top High School Award (Advances to State Level Competition)</b>			
<b>** Advances to the State Level Competition - NYS Science Congress</b>			
<b>*** Alternate for Science Fair Congress</b>			