

2018 Tri-County Science & Technology Fair Award Winners

AWARD	NAME	PROJECT TITLE	SCHOOL
<i>Elementary School Biology</i>			
Excellent	Olivia Moran	<i>Does Your Mood Affect Your Blood Pressure?</i>	Garrison
Excellent	Eva Stern, Isabel Dourmashkin	<i>Does the Nose Know?</i>	PEARLS
Excellent	Elias Moran	<i>Which Door Handle in the School Has the Most Bacteria?</i>	Garrison
Excellent	David Takaki	<i>Are Your Eyes Playing Tricks on You?</i>	PEARLS
Excellent	Hudson Yeaple, Talula Yeaple	<i>Rabbit Behavior and Ability to Learn Patterns and Colors</i>	Garrison
Excellent	Isabelle Mejalli	<i>Will Colored Water Cause a Colored Flower to Change?</i>	Hutchinson
Excellent	Gianna Navarrete, Lia Huang	<i>Can Lemon Kill Germs?</i>	Prospect Hill
<i>Elementary School Chemistry</i>			
Outstanding	Dean Vazquez	<i>Strange Things in Soft Drinks</i>	Family School 32
Outstanding	Gwen Gordon, Ellery Gordon	<i>Garrison Vs Cold Spring - How Hard is the Water?!</i>	Garrison
Excellent	Eabha Peel, Carey Gallagher	<i>Lava Lamp Chemistry</i>	PEARLS
Excellent	Gianna Stracuzzi	<i>Can Liquids Break Down Latex Balloons?</i>	F.E. Bellows
Excellent	Aoife Bronnimann	<i>How Much Vinegar Makes the Most Casein Plastic from Milk?</i>	F.E. Bellows
Excellent	Andrew Andrade, Sina Rassi	<i>Will Different Vinegar Affect Chemical Reactions?</i>	Hutchinson
Excellent	Gabriel Dzwonek, Rachel Solomon	<i>How Strong is Water and Salt Water?</i>	Hutchinson
<i>Elementary School Earth/Space Sciences</i>			
Excellent	Peter Dinitz	<i>Soil Vs. Colored Water: Will the Flower Change?</i>	Garrison
Excellent	Elena Villalobos	<i>How to Grow the Best Crystals</i>	School 30
Excellent	Jordan Collins	<i>Volcano</i>	Richard .J. Bailey
<i>Elementary School Engineering & Technology</i>			
Outstanding	Mackenzie Mcgough	<i>How to Make a Mechanical Arm</i>	PEARLS
Excellent	Maya Tanaka	<i>Which Type of Lemon is Best for Secret Writing?</i>	Prospect Hill
Excellent	Kierra Iglehart, Sarah Kaplan	<i>Magnet Movement</i>	Richard .J. Bailey
Excellent	Giovanni Cipollone	<i>Robo Bank</i>	PEARLS
Excellent	Luke Harvey	<i>Can It Go the Distance?</i>	Patricia Dichiaro
Excellent	Ari Barta	<i>Transforming Electricity</i>	Garrison
Excellent	Nina Seales, Desiree Whitley	<i>What Shape Floats Best?</i>	Hutchinson
<i>Elementary School Environment</i>			
Outstanding	Lillianna Fauci	<i>Which Pet Store Fish is Best to Grow Hydroponic Plants?</i>	F.E. Bellows
Excellent	Sarafina Deighton	<i>Will Plants Grow from Parts Other Than Seeds?</i>	Hutchinson
<i>Elementary School Health & Medicine</i>			
Outstanding	Sasha Carmel	<i>Spiciness of Pepper and Physical Characteristics</i>	F.E. Bellows
Outstanding	Cara McNulty, Karie Mcinerney	<i>Rethink Your Drink</i>	PEARLS
Outstanding	Hesham Albahr, Bobby North	<i>Will Color Affect Taste?</i>	Hutchinson
Outstanding	Gavin Cooper	<i>How Well Do Disinfectants Work</i>	Patricia Dichiaro
Excellent	Christopher Fuller	<i>Do Antibacterial Wipes Work?</i>	Patricia Dichiaro
Excellent	Christian Defelippi, Jimmy Clunie	<i>Does Age Affect Human Reaction Times?</i>	Prospect Hill
Excellent	Lily Haugh	<i>Watch What You Drink</i>	Family School 32
<i>Elementary School Physics</i>			
Outstanding	Jake Morton	<i>Defining Sound</i>	Richard .J. Bailey
Outstanding	Harry Millan	<i>Wavelength Interference Patterns</i>	F.E. Bellows
Outstanding	Brady Sergio	<i>Does Weight Affect the Rate of Swing of a Pendulum?</i>	F.E. Bellows
Outstanding	Jack Evangelista, Julian Russo	<i>Does Weight Affect How Far Ball Rolls?</i>	F.E. Bellows
Excellent	Ella Stephens	<i>Which Ball Bounces Higher on the Blacktop?</i>	Prospect Hill
Excellent	Kiran Schwaderer	<i>Will a Banana Conduct Electricity Better When It is Ripe?</i>	Hutchinson
Excellent	Johnathan Longno-Phoummany	<i>Will Pressure Affect Electric Current?</i>	Hutchinson School
Excellent	Stefen Markovic, Adrian Winter	<i>Does the Wingspan of a Glider Affect How Far It Goes?</i>	Prospect Hill
Excellent	Aden Hadi	<i>Clever Citrus Conductor</i>	Richard .J. Bailey

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AWARD	NAME	PROJECT TITLE	SCHOOL
<i>Middle School Biology</i>			
1**	Charlotte Dinitz	LEDs & Their EPGS (Effects on Plant Growth)	Garrison
1**	Olivia Auffarth	Effect of Antioxidants on the Growth of Plants	Rye Neck MS
2***	Daniella Delgado, Emma Hanaburgh	Does Music Affect Plant Growth?	George Fischer MS
3	Thehara Ubayawardena	Can Plants Grow Against Gravity?	F.E. Bellows
<i>Middle School Chemistry</i>			
1***	Derek Ryan	Effect of Galactose on the Activity of B-Galactosidase (Lactase)	Rye Neck MS
2***	Julia Sandberg	How Does the Solute of a Water Solution Affect the Strength of Electrolysis?	Rye Neck MS
2	Ella Grann	What Impact Will Ocean Acidification Have on Sea Life?	F.E. Bellows
3***	Viren Maira	How to Make Glow Sticks Glow Brighter	Pelham MS
<i>Middle School Earth/Space Sciences</i>			
2***	Daniel Gomez	Outer Space	Patricia Diciaro
3	Jacob Goldman-Wetzler	How Does the Ratio of the Amount of Papers to Area of Papers Effect Perception of Thickness?	Farragut MS
<i>Middle School Engineering & Technology</i>			
2***	Benjamin D'Amico	Affordable and Efficient Drones for Emergency Use	Rye Neck MS
3	Zachary D'Amico	The Better Renewable Energy Source	F.E. Bellows
<i>Middle School Environment</i>			
1**	Kyle Ryan	Air Pollution: Particulate Matter in the Village of Mamaroneck	Rye Neck MS
2**	Peter Nicholas	Mycofiltration	Rye Neck MS
3***	Mihir Patil	The Effectiveness of Using Mealworms to Eliminate Household Waste.	Edgemont Jr/Sr HS
<i>Middle School Health & Medicine</i>			
1**	Leah Sherbansky	Prevention of Streptococcus Illnesses	Pelham MS
1	Samina Quli	Food and the 5 Second Rule	F.E. Bellows
1**	Titli Bandyopadhyay	Studies of Hydrogel as an Alternate Carrier for Oral Drug Delivery	George Fischer MS
2***	Victoria Sciarra, Cassandra Sciarra	Which is More Dangerous? the Sun or Sunscreen?	George Fischer MS
3	Jeremy Morton	Test Your Tolerance to Salt	Woodlands MS
<i>Middle School Math & Computers</i>			
2***	Kenneth Ge	An Algorithm for Bus Routes	Edgemont Jr/Sr HS
3	Linus Ringstad, Henry Robertson	The Effect of Population Density on Antibiotic Resistance	Rye Neck MS
<i>Middle School Physics</i>			
1*	Ara Beigi	Resonance and Natural Frequency	John Jay MS
2***	Ava Liebmann, Jessica Park, Abigail Andrade	How Does the Shape of An Arrowhead Impact the Depth It Can Penetrate into a Target?	Rye Neck MS
3	Cormac Murphy	How Does Color Affect the Absorption of Light?	PEARLS
<i>Middle School Psychology</i>			
1	Amanda Scholz, Beatrice (Bee) Herbstman	Multitasking	Farragut MS
2***	Marija Domgjoni	Do People Judge Food Based on Color?	PEARLS
2***	Isabel Palacios-Ferrer	How Does Color Affect Taste?	Rye Neck MS
3	Phelan Waldron	Do Students Gain Better Scores When Listening to Different Sounds?	Garrison
* Judge Edith Miller Excellence in Education Award for Top Middle School Award (Advances as nominee to Broadcom Masters competition)			
** Advances as nominee to Broadcom MASTERS competition			
*** Alternate for Broadcom MASTERS			
Rye Neck MS Presented the Susan Schaeff Handelman Award for Scholastic Excellence in Science & Technology for Top Middle School			

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AWARD	NAME	PROJECT TITLE	SCHOOL
<i>High School Biology</i>			
1***	Shrila Shah	<i>The Evaluation of Recombinant Cytotoxins for the Therapy of Cns Tumors in Experimental Mouse Models</i>	Yorktown HS
2***	Jessica Finkler	<i>The Role of Notch Signaling in T-Cell Acute Lymphoblastic Leukemia</i>	Mahopac HS
3	Dhruv Sidhwani	<i>Comparing Levels of H1 Histone Subtypes in CEKO Mouse Splenocytes</i>	Edgemont HS
<i>High School Chemistry</i>			
1***	Alyssa Zhang	<i>Identification of Volatile Organic Compounds in Food Packaging Materials by SPME Headspace GC/MS</i>	Yorktown HS
2	Danielle Bucci	<i>Quantification and Chemical Analysis of Leachate from Bisphenol-A Free Baby Bottles After Exposure to Microwave Stress</i>	Harrison HS
3	Anna Cahn	<i>Determining the Effectiveness of Aloe Vera on Flame Retardant Properties</i>	Harrison HS
<i>High School Clinical/Social Psychology</i>			
1	Casey Oppenheim	<i>The Effects of Social, Cultural, and Academic Belonging on Perceived Stress in Adolescents.</i>	Sleepy Hollow HS
2	Eliza Grose	<i>The Association of Positive Emotion with Empathy in Adolescents</i>	Sleepy Hollow HS
3	William Baschwitz	<i>Surveying Physical Therapists on Providing Adolescent Patients with Physical Therapy (PT) Education Prior to Surgery</i>	Croton-Harmon HS
<i>High School Earth-Space Sciences</i>			
1	Christopher Bauco	<i>Investigating Paleoclimate Through the Deposition of Ice Rafted Debris from the Western Mid-Atlantic Ridge</i>	Westlake HS
2	Dora Rippon	<i>Determining the Minimum Mass of a Habitable Planet</i>	Putnam Valley HS
3	Alejandra Perea Rojas	<i>Building a Machine Learning Web Application to Facilitate the Deduction of Stellar Parameters</i>	Fox Lane HS
<i>High School Engineering & Technology</i>			
1**	Sarah Broas	Development of Decellularized Peppermint Leaf Functionalized Biomimetic Scaffolds for Cardiac Tissue Engineering	Putnam Valley HS
2	Arjay Mirchandani	<i>Boundary-Layer Flow Dynamics Concerning Forward Swept Wings</i>	Yorktown HS
3	Alex Mayo-Smith	<i>Engineering An Affordable and Easy to Use Biosphere to Test the Effects of Elemental Carbon Dioxide on Plants Growing in Martian Regolith</i>	Rye HS
<i>High School Environment</i>			
1***	Nicole Francis	<i>The Effect of Environmental Factors on Anguilla Rostrada (American Glass Eel) Migration in the Blind Brook off the Long Island Sound</i>	Rye HS
1***	Lee Cohen	<i>Why So Aggressive? Understanding Image Completion and Territorial Behavior of Coral Reef Fish in the Red Sea</i>	Westlake HS
2	Eesha Thaker	<i>How Big is Your Footprint? Analyses of Eutrophication and Proximity to Fertilized Areas</i>	Irvington HS
3	Bennett Taylor	<i>Can the Tardigrade Dsup Gene Be Effectively Inserted into a Commercial Soybean as to Increase Radiation Resistance?</i>	Rye Neck HS

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AWARD	NAME	PROJECT TITLE	SCHOOL
<i>High School Health & Nutrition</i>			
1	Rebecca Tenner, Anna Nakagama	<i>What are the Main Barriers That Keep Students from Receiving Vaccinations?</i>	Rye Neck HS
2	Colin Hannah, Brian Weir	<i>Determining Trends in Sports-Related Injuries and Identifying the Most Effective Rehabilitation Strategies</i>	Yorktown HS
3	Joshua Gottschall	<i>The Environmental Factors of Crohn'S Disease</i>	Sleepy Hollow HS
<i>High School Math & Computers</i>			
1	Ananya Gurumurthy	<i>Novel Use of a Convolutional Neural Network for the Diagnosis of Inflammation and Infection in Soft-Tissue Implant Regions</i>	Edgemont HS
2	Peter Manthey	<i>Using Bioinformatics to Model Cell Proliferation</i>	Hendrick Hudson HS
3	Walter Wacaser	<i>Human Assisted Neuroevolutionary Algorithms</i>	Putnam Valley HS
<i>High School Medicine and Medical Science & Technology</i>			
1*	Margaret Zhong	<i>The Therapeutic Implications for a Novel Nimodipine Derivative in Alzheimer's Disease</i>	Ardslay HS
2**	Olivia Dunne	<i>How Can Antibody Conjugation Assist in the Intake of Gold Nanoparticles by Fshr-Expressing Cells?</i>	Rye Neck HS
3**	Rory O'Brien	<i>Methods for Investigation of the Effects of Spinal Cord Lesion on Motor Cortex Activity in Mice</i>	Yorktown HS
<i>High School Physiological/Experimental Psychology</i>			
1	Julia Kischkat	<i>Utilizing the Non Schooling Paracheirodon Axelrodi and Schooling Paracheirodon Innesi to Develop a Model of Neophobia and Social Independence</i>	Harrison HS
1	Alyssa White	<i>The Effect of Music Temp on the Heart Rate of Domestic Horses</i>	Mahopac HS
2	Nicole Pereira	<i>The Effect of Valporic Acid on the Memory of Cockroaches</i>	Rye Neck HS
2	Erik Bird	<i>Differences in Time Perception and Perceived Control Amongst Adolescents and Adults</i>	Sleepy Hollow HS
3	Kelly Marx	<i>Neurological Results in Children, Teenagers, and Young Adults with High Risk Sickle Cell Disease Who Have Received a Familial Haploidentical Allogeneic Stem Cell Transplantation</i>	White Plains HS
* Marilyn Reiner Science in Education Award for Top High School Award (Advances to State Level Competition)			
** Advances to the State Level Competition - NYS Science Congress			
*** Alternate for Science Fair Congress			