

20th Annual Tri-County Science & Technology Fair Award Winners

AWARD	NAME	PROJECT TITLE	SCHOOL
Elementary Biology			
Outstanding	Madison Smith	<i>Ant-Tastic Tasting</i>	Garrison School
Excellent	Elizabeth Nelson, Fallon Berry	<i>Are Dogs Color Blind?</i>	Garrison School
Excellent	Ruby Liebmann	<i>Do people absorb more information when they hand-write notes or type them?</i>	F.E. Bellows Elementary School
Outstanding	Simryn Molina	<i>To See or Not to See, That is the Question</i>	Rockland Country Day School
Outstanding	Hailey Raio	<i>And the Beat Goes On</i>	Pennington Grimes
Outstanding	Chase Garcia	<i>Germs and Handwashing</i>	Pennington Grimes
Elementary Chemistry			
Excellent	Phelan Waldron	<i>Cookie Science</i>	Garrison School
Outstanding	Ariana Victor	<i>Which type of liquid soap makes the biggest bubble before popping?</i>	F.E. Bellows Elementary School
Excellent	Evelyn Higbee	<i>Yeast is Rising</i>	Garrison School
Outstanding	Stella Devaney	<i>Sap to Syrup</i>	Pennington Grimes
Outstanding	Ava Moye	<i>Composting</i>	Pennington Grimes
Elementary Earth-Space Sciences			
Outstanding	Gabriel Miller	<i>Does light lose brightness when bounced off a mirror?</i>	F.E. Bellows Elementary School
Elementary Engineering & Technology			
Excellent	Remie Suvanto	<i>Which bridge can hold more weight: suspension beam or flat?</i>	F.E. Bellows Elementary School
Elementary Environment			
Outstanding	Lucy Friedman	<i>Does the amount of e.coli, oxygen, and phosphates in Long Island Sound watershed rivers and streams change based on proximity to the Sound?</i>	F.E. Bellows Elementary School
Outstanding	Emma Dwyer	<i>Oh What A Mess</i>	Pennington Grimes
Outstanding	Xavier Rolston	<i>Why Can't I see my breath when it's cold out</i>	Pennington Grimes
Elementary Math/Computers			
Excellent	Caleb Alter	<i>Do people estimate the quantity of a large number of things more accurately than a smaller amount of things?</i>	F.E. Bellows Elementary School
Elementary Physics			
Excellent	Tim Liu	<i>Air and Water Power</i>	Garrison School
Excellent	Anna Maulucci	<i>How will different surfaces affect how long a top spins?</i>	F.E. Bellows Elementary School
Outstanding	Leeloo Boubliil	<i>Over the Rainbow</i>	Garrison School
Outstanding	Olivia Curtis, Julia Lane	<i>Playground Physics</i>	Pennington Grimes

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AWARD	NAME	PROJECT TITLE	SCHOOL
Middle School Biology			
1	Melody Kulaprazhazhe	<i>Buhbah Kikki Effect</i>	PEARLS Hawthorne
2	Evan Neu	<i>The Fungus Frigate</i>	John Jay Middle School
2	Eddie-Joe Barry	<i>Exercise Effect on Brain Function</i>	Garrison School
3	Emerson Smith	<i>Garrison's Jungle of Germs</i>	Garrison School
Middle School Chemistry			
1*	Alvin John	Ammonium Nitrate and Ice Packs	PEARLS Hawthorne
2	Alex Paskov	<i>The Corrosive Effects of Deicers on Copper and Steel</i>	Edgemont Jr/Sr High School
3	Jack Parkin	<i>Salt Water and the Corrosion of Metals</i>	Rye Country Day School
Middle School Earth Sciences			
1	James Brandfonbrener	<i>Microfossil Count in Different Sedimentary Rocks</i>	Edgemont Jr/Sr High School
2	Ally Leff, Amanda Micceri	<i>Ice, Ice Baby</i>	Somers Intermediate School
3	Lina Montes	<i>How do Anticlines and Synclines form in Dry Vs. Wet Sand?</i>	PEARLS Hawthorne
Middle School Engineering & Technology			
1	Jack Engels	<i>Measuring the Magnetic Force of a Ferrofluid</i>	Rye Country Day School
2	Benjamin Banker	<i>How do wing shape, weight, and center of gravity affect flight?</i>	Rye Neck Union Free School District
3	Katie Ricca	<i>Drinking Straw Robot Hand</i>	John Jay Middle School
Middle School Environment			
1	Ida Henriksson	<i>Testing the effect of color on temperature</i>	Rye Neck Union Free School District
2	Daniel Gordon	<i>How to Kill an Oil Spill: A Search for a Solution</i>	John Jay Middle School
3	Caitlin Burke, Kristin Tobin, Kaitlin Zani	<i>What are the Physical Effects of Stress?</i>	St. Augustine School
Middle School Math & Computers			
3	Emma Parks	<i>Coin Probability</i>	Garrison School
Middle School Physics			
1	Michael DeLia, Ryan Joyce, James McCarthy	<i>Gravity – It's not Just a Good Idea. It's the Law</i>	St. Augustine School
2	Aena Khan	<i>Blood Splatter Identification</i>	PEARLS Hawthorne
3	Alexa Gagnon	<i>Color's Effect on Energy Transfer</i>	Garrison School

* Judge Edith Miller Excellence in Education Award for Top Middle School Award

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AWARD	NAME	PROJECT TITLE	SCHOOL
High School Biology			
1	Milad Mohammadi	Bioengineering of FGF20 agonists for stem-cell based therapy of Parkinson's disease	Edgemont High School
2	Todd Morse	An analysis of the allosteric communication of Hsp70 via the R151K mutation of DnaK	Scarsdale High School
2	Audrey Hecht	Interaction of a Tricyclic Antidepressant with Specific Sites in the Neurotransmitter Transporter homolog LeuT.	Hendrick Hudson High School
3	Sam Huang	AAV9 Capsid Mutation by Addition of a CCK8 Ligand	Scarsdale High School
3	Kathryn Evans	Diversity and Evolution of Endogenous Retroviruses In Afrotherians	Scarsdale High School
High School Chemistry			
3	Lauren Hannah	Image Guided Radiotherapy of Colorectal Cancer with the A33 Antibody	Yorktown High School
High School Earth-Space Sciences			
1	Rachel Hurst	Star Formation as a Function of Mass	Scarsdale High School
3	Hannah Bocker	The Black Hole	The Montfort Academy
High School Engineering & Technology			
2	Ben Barton	Threshold Voltage Analysis: IBM MOSFET Transistors	Fox Lane
3	David Lumelsky	Ice-Release Coatings on Aircraft Frames to Prevent Icing during Flight into Known Icing Conditions	White Plains High School
High School Environment			
2	Brian Beitler	The Effects Of Potato Extract On Streptomyces spiroverticillatis 2AW and Pseudomonas syringae DC3000	Scarsdale High School
High School Health & Medicine			
1	Cynthia Luo	Internalization and Recycling Patterns of anti-HER2 antibody in SK-BR3 breast carcinoma cell line	Rye Country Day School
1	Jamie Tanner	The Role of Microbial Proteases in the Elicitation of Allergy	Scarsdale HS
2	Satoko Mii	The Effect of Psychological Stress on the Development of Breast Cancer	Yorktown High School
3	Phillip Liu	An Investigation of the Architecture of the Inner Plexiform Layer of the Retina	Scarsdale High School
High School Math & Computers			
1	Ivan Paskov	Fighting cancer with a computational brain	Edgemont High School
2	Elizabeth Yam	Significant motifs in 3 dimensional structure of cytochrome C associated with taconomic classes	Edgemont High School
High School Physics			
2	Tanay Bhandarkar	Dark Matter Detection in Dwarf Spheroidal Galaxies	Walter Panas High School
3	Ilan Filonenko	Coulomb interactions between protons and helix HL in complex I in the electron transport chain	Edgemont High School
High School Psychology			
1*	Kaitlin Ferguson	The Periaqueductal Grey and its Relation to Aggression Modulation	Yorktown High School
2	Elizabeth Sillocks	Is Nutrition Education in Schools Causing An Increase in Eating Disorder Behaviors in Adolescents?	Walter Panas High School
3	Johnny Ma	The Effect of Rapid Eye Movement Sleep and Slow Wave Sleep On Memory Consolidation	Rye Country Day School

* Marilyn Reiner Science in Education Award for Top High School Award (Advances to State Level Competition)
Also Advances to State Level Competition