

New Rochelle Middle School Research Fair Winners, January 2022

Student	Award	Project Title	Description	Mentor
Andrew Chavez	Exceptionalism in Research Curiosity	Fun with Foam! Investigating the Effect of Dish Soap Brand on an Elephant Toothpaste Reaction	Andrew determined which dish soap is the best to use during the elephant toothpaste reaction.	Aviva Segal
Suwaida Lawal	Excellence in Creative Approaches to Research	Why Are There Leap Years? The Earth's Rotation and How it Impacts our Yearly Calendar	Suwaida investigated why leap days are included in the calendar every four years.	Natalia McMorris
Emma Wert	Exceptionalism in Experimental Design	Different Dog Speeds!	Emma determined which dog runs the fastest between 3 different dog breeds.	Jacqueline Ceja
Krishna Perez and Camila Lojano	Excellence in Collaborative Research	Read with Speed: Does Liking a Book Help You Read it Faster?	Krishna and Camila investigated if the level of interest one has in a book affects the speed they read the book at.	Jake Egelberg
Julian Garcia	Excellence in Science Communication	How Much Weight Can Your Boat Float?	Julian examined how much weight can be supported by boat hulls of various volumes and how that relates to density.	Ella Harshman
Rawan Abdelqader	Excellence in Fundamental Research	The Importance of Wind Turbines	Rawan investigated the importance of wind turbines and constructed a model by hand.	Jason Zheng

Maya Marrero	NR-USE Innovation Award	Fab 4 Towers: Which Tower is Most Stable?	Maya investigated different materials to determine what creates the most stable tower.	Dylan Sadow
Adrian Abreu	Outstanding Research in Earth Science/Astronomy	What was the Spinosaurus's Lifestyle? Determining if the Spinosaurus was a Fully-Aquatic or Semi-Aquatic Dinosaur	Adrian examined evidence to determine whether the Spinosaurus was semi-aquatic or fully aquatic.	Anthony D'Amato
Eliana Johnson	Outstanding Research in Chemistry	Does the Milk Matter: Milk Type and Fat Content and Cupcake Moisture and Density	Eliana determined the effect of the percent fat in milk on cupcake moisture and density.	Natalia McMorris
Benny Perez	Outstanding Research in Physics/Engineering	The Best Way to Throw a Baseball!: The Effect of Different Pitching Styles on Ball Distance	Benicio examined the effect of the type of baseball throw on the distance that the baseball travelled.	Akshara Kootala
Kayden Mullings	Joyce Kent Young Scientist Award	THE SOLAR MOTOR: How Does a Supercapacitor Affect a Solar Motor?	Kayden evaluated how solar motors are directly impacted by the time they spend in the sun.	Rachel Rivera
Carolina Pappalardi	Best in Elementary Division	The Need for Green: COVID-19's Effect on Urban Green Space Planning	Carolina researched green spaces: the need for green has changed since COVID-19!	Alessandra Pappalardi
Tyler Nask, Alyssa Nask, Yuneeb Uzun	Third Place in Chemistry (Middle School)	Red Cabbage Natural pH Indicator:	Tyler, Alyssa, and Yuneeb developed an understanding	Ashley Valencia

		Anthocyanin Homemade pH Indicator	of pH with the help of anthocyanin, a natural dye found in red cabbage.	
Gabriel Mutterperl	Second Place in Chemistry (Middle School)	What is the Best Performance Drink for Runners? What Drink Contains the Most Amount of Electrolytes	Gabriel created a copper conductor to test what sports drink has the most electrolytes!	Atzin Bravo-Guzman
Lilia Hafid	First Place in Chemistry (Middle School)	Water In Masks	In light of the Covid pandemic, Lilia worked to identify which type of mask retained water, and found they all retained the same amount!	Anna Barlis
Andrew Babu	Third Place in Chemistry/Food Science (Middle School)	Apples To Oranges: Determining Which Citrus Fruit Will Slow Oxidation on Apples	Andrew researched to see which citrus fruit would prevent oxidation of apples the greatest.	Anthony D'Amato
Dylan Pirrello	Second Place in Chemistry/Food Science (Middle School)	The Power of pH: Identifying the Benefits of Different pH Levels in Beverages	Dylan identified the pHs of different beverages, and how such pHs correlated with the known health benefits of each drink.	Alessandra Pappalardi
Lia Seelenfreund	First Place in Chemistry/Food Science (Middle School)	All Rise: A Comparison of Cupcake Heights Containing Combinations of Gluten-Free Flours	Lia tested how cupcakes would bake and rise when using gluten free flours combined with almond flower.	Elizabeth Liku

Sophia Artilles	Third Place in Behavior (Middle School)	Dog Responses to Human Emotions	Sophia examined whether or not dogs could sense specific emotions in humans and how they responded to such emotions	Natalie Chang
Scarlett Hartzman	Second Place in Behavior (Middle School)	Speed Reading Techniques: The Effect of Speed Reading Techniques on Words Per Minute (WPM)	Scarlett examined the effect of using a speed reading technique on a person's reading speed	Karun Kulamavalavan
Emily Rossi	First Place in Behavior (Middle School)	The Effect of Music on Memorization	Emily looked into how different types of music (classical, pop, instrumental) affected the memorization of words.	Jessica Shapiro
Elnaz Sadeghi	Third Place in Earth Science/Astronomy/Physics/Engineering/Biology (Middle School)	Honey, I Think The Plants are Listening to Music: Do Plants Really Respond to Music?	Elnaz determined which genres of music increase plant growth the most during germination and once planted.	Sabrina Lin
Cory Seelenfreund	Second Place in Earth Science/Astronomy/Physics/Engineering/Biology (Middle School)	Bingo Winning Probability: How Many Calls Does it Take For Someone to get Bingo in a Game with a Certain Number of Cards in Play	Cory determined how many cards it would take for someone to get Bingo in a game with a certain number of cards in play	Nikhil Mukraj
Noah Rosencrantz	First Place in Earth Science/Astronomy/Physics/Engineering/Biology (Middle School)	Aren't Chores Such a Drag? Well, so is Air! Determining the Characteristics	Noah looked into the characteristics of aerodynamic shapes and the absence of	Ariel Rosencrantz

		of an Aerodynamic Shape	smoke behind each shape	
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