

27th Annual Coriell Institute Science Fair Winners

Behavioral and Social Sciences

Division	Award Name	Full name	School Name	Title
A	1st Place	Daysi	Brimm Medical Arts High School	Are Rules Meant to be Broken?
A	2nd Place	LaQuicia	Brimm Medical Arts High School	People Who Smoke and their SES
A	3rd Place	Jakyrah	Brimm Medical Arts High School	Why Are Teens Stressed?
A	Honorable Mention	Jasmine	Brimm Medical Arts High School	Ringtones My Teachers Can't Hear
A	Honorable Mention	Priscilla	Brimm Medical Arts High School	Testing the Accuracy of Eyewitness Testimony
B	1st Place	Brittney	Cherokee High School North	Your face says it all
B	2nd Place	Mike	Camden Academy Charter High	The Harmony of Studying
E	1st Place	Aashna	William Allen Middle School	What Affects People's Recycling Behavior?
E	2nd Place	Michael	St. Joseph Pro-Cathedral School	Will Teens Devour Adults?
E	3rd Place	Bharath	Moorestown Upper Elementary	Optimism in Humans
E	Honorable Mention	Amanda	William Allen Middle School	Why Does Being Bad Taste So Good?
E	Honorable Mention	Gabrielle	Haddonfield Friends School	Moody Murals
E	Honorable Mention	Sanil	Harrington Middle School	Battle of the Sexes
E	Honorable Mention	Gregoria	East Camden Middle School	Cell Phones Cool Factor

Biochemistry

A	1st Place	Priya	Cherry Hill High School East	The Molecular Mechanisms of AMPA Receptor Trafficking
B	1st Place	Amy	Moorestown High School	MEOR= More Oil! Tuning Microbial Surfactants to Increase Oil Recovery
B	2nd Place	Nipun	Cherry Hill High School East	Transcriptional Dereglulation of the Pocket Proteins in RPWE and C42 Cell
C	1st Place	Kelsey	Moorestown High School	Expression of the Glycophosphate-Resistance Gene in Organic and
E	1st Place	Kelly	Home School, Di Stefano Family	How Different Types of Water Effect Plant Growth
E	2nd Place	Louis	Morgan Village Middle School	Will Miracle Grow Increase the Germination Rate of Lima Beans?
E	3rd Place	Ashley	Veterans Memorial Middle School	Memory With A Side of Mustard

Botany

A	1st Place	Christopher	Cherokee High School North	Effects of caffeine on plants
B	1st Place	Barbara	Gateway Regional High School	Aquaponics: Coupling Man's Needs and Nature's Limitations with
B	2nd Place	Kyle	Cherokee High School North	New Green Fertilizer? Urine!
D	1st Place	Rebecca	Hickory Academy	Combination Chloroplasts: A Study on the Effect of Various NaCl Solutions
D	2nd Place	Rebecca	Woodill Homeschool	Response of Seeds to Tone
E	1st Place	Noraima	East Camden Middle School	Traveling Plant Food
E	2nd Place	Evan	Gateway Regional High School	New Jersey Soil vs. Potting Soil
E	3rd Place	Laura	Hartford Upper Elementary School	The Effect of Aspirin on Asiatic Lillies

Chemistry

A	1st Place	William	Brimm Medical Arts High School	Killer Toys
B	1st Place	Yue	Cherry Hill High School East	Co-crystals as an Alternative to Current Drug Forms
B	2nd Place	Anand	Cherry Hill High School East	Using dynamic light scattering and gas chromatography to analyze a novel
D	1st Place	Rachel	Collins Place Home School	Is the Rust a Must? A Study on the Use of Anti-oxidants on Iron Corrosion
E	1st Place	Tyler	Magnolia School District	Gone Before You Blink
E	2nd Place	Natasha	Magnolia School District	Solubility and Temperature
E	3rd Place	Tyler	Reich Homeschool	Soda POP!

Chemistry

E Honorable Mention Duong East Camden Middle School Vitamin C Detective

Computer Science

D 1st Place Brett Reich Homeschool The Encryption Effect
E 1st Place Zachary Delran Middle School What Type of Metal Absorbs Heat from a Computer Processor the Quickest

Consumer Science

E 1st Place Riana Wilbur Watts Intermediate School The Melting Situation
E 2nd Place Danielle Angel Academy Battle of Brands
E 3rd Place Isaac William Allen Middle School Pens, Pens! I Implore, Which is Best and Nothing More?
E Honorable Mention Amanda Bonsignore Homeschool Cookies for All
E Honorable Mention Devan Gateway Regional High School Jolly Popping Time

Earth and Space Sciences

E 1st Place Alex McBride Homeschool Effects of Wind Turbines on Photo Voltaic and Proton Exchange Membrane
E 2nd Place Sophia Williams Homeschool All Season Weather
E 3rd Place Jennifer Moorestown Upper Elementary Cold, Warm, Freezing or Norm. What Best Makes Crystals Form?

Engineering

A 1st Place Adan Renaud Christian Academy Stereo Vision on Lenticular Imaging
A 2nd Place Tiana Brimm Medical Arts High School Dusty Comps
B 1st Place Elijah Camden Academy Charter High The Hand
D 1st Place Christopher Lenape High School Target Practice: Engineering for Accuracy
E 1st Place Hassan Thomas A Edison Elem School Aeroge: The Future of Fire Safety
E 2nd Place Joseph Haddonfield Friends School As Solid As A Rock
E 3rd Place Matthew Haddonfield Friends School Burn, Baby, Burn: A Study of Drywall Resistance Towards Flame
E Honorable Mention Alexander Haddonfield Friends School Roof Be Gone
E Honorable Mention Alexander Haddonfield Friends School Come Sail Away

Environmental Sciences

A 1st Place Mike Gateway Regional High School Comparing Energy Yield in Different Biodiesels
B 1st Place Fatou Brimm Medical Arts High School Global Warming and Zebrafish Eggs
B 2nd Place Shaina Williams Homeschool Elegan-t Hormones
B 3rd Place Jibril Camden Academy Charter High Murky Waters: How Much Pollution in the Delaware and Cooper River.
B Honorable Mention Melissa Cherry Hill High School East Banking on Saving the World
C 1st Place Robert Cherry Hill High School East Wind Energy
E 1st Place John Renaissance Homeschool Oil, Spills, Dispersants and Coral
E 2nd Place Zana Florence School How Acid Rain Affects Seed Germinations
E 3rd Place Rachel Magnolia School District Which Type of Water Makes Grass Grow Faster?
E Honorable Mention Vernon Aura Elementary School Composting: Putting Waste to Work

Mathematics

B 1st Place Christopher Camden Academy Charter High A Mathematical Analysis of Tornadoes in the U.S.
C 1st Place Gerald Baldock Homeschool A Statistical 2 3 Factorial Design Study on the Effects of Three Variables on
D 1st Place Shyam Cherry Hill High School East Applications of Systems of Linear Equations
E 1st Place Justin Baldock Homeschool Mathematical Analysis on the Effects of Salt Concentration, Salt Type and

Medicine and Health

A	1st Place	Ethan	Cherry Hill High School East	Asthma Screening in Urban versus Suburban Schools
A	2nd Place	Nga	Brimm Medical Arts High School	Dieting Worms
A	3rd Place	Ashley	Camden Academy Charter High	Toothpaste and Bacteria Growth
B	1st Place	Karine	Moorestown High School	Evaluation of Heart Rate and Blood Pressure Volatility in Murine Sepsis
B	2nd Place	Gowtham	Cherry Hill High School East	Immune Stimulatory Effect of HMGB1 Plasmid in Adjuvanting DNA
B	3rd Place	Joshua	Collins Place	Can Crickets Be Truck Drivers?
B	Honorable Mention	SungHyun	West Deptford High School	What Is the Effect of Coffee, Aspirin, or Garlic on Chicken Bones:
C	1st Place	Mary	Moorestown High School	Obesity in Children: City vs. Suburbs
C	2nd Place	Michael	Brimm Medical Arts High School	The Effect of Gingko Biloba on Heart Rate
D	1st Place	Naveen	Cherry Hill High School East	Gender Differences in Obtaining Preventative Healthcare
E	1st Place	Laura	William Allen Middle School	The Effect of Color on Visual Recovery from Photostress Test
E	2nd Place	Joelle	William Allen Middle School	Fatness and Fitness is Middle School Business: The Intervention
E	3rd Place	Alethia	Haddonfield Friends School	Wishy, Washy, Worms
E	Honorable Mention	Dhalil	Haddonfield Friends School	Oh What A Pain. . . Migraine!

Microbiology

B	1st Place	Cristy	Moorestown High School	Treatment with Antisense PSODN in Mycobacterium smegmatis Enhances
C	1st Place	Pallavi	Moorestown High School	Can Cells be Conditioned to Grow in a Culture Media with Increasing
C	2nd Place	Christopher	West Deptford High School	What are the Effects of Nicotine and Sugar on the Growth and Pigment
D	1st Place	Matthew	McBride Homeschool	Exposing Caenorhabditis Elegans to Radio Frequency Energy
E	1st Place	Aviana	Haddonfield Friends School	All Washed Up-And Then Some
E	2nd Place	Cassian	Haddonfield Friends School	Freshen Up
E	3rd Place	Juan	East Camden Middle School	Bacteria Here, There, Everywhere

Physics

B	1st Place	Anthony	Mondelli Homeschool	A Study of the Effect of Thermal Variance on the Break Point of a Confined
E	1st Place	Jeffrey	Harrington Middle School	Ferrofluid Droplet in an in-plane DC Electromagnetic Field
E	2nd Place	Jaimie Fan	William Allen Middle School	Drafting - Is it worth it?
E	3rd Place	Jack	Aura Elementary School	Does a Kiai Really Increase the Force of a Strike?
E	Honorable Mention	Daniel	Harrington Middle School	The Science of Motion - A Pendulum Query
E	Honorable Mention	Luisa	Haddonfield Middle School	Magnet Energy
				Microwaved Water

Team/Life Sciences

AD	1st Place	Eric	Cherry Hill High School East	Examining the impact of various intensities of light on human eyes
AD	1st Place	Chanyang	Cherry Hill High School East	
AD	1st Place	Zhonghuang	Cherry Hill High School East	
AD	2nd Place	Starr	Brimm Medical Arts High School	The Effect of Phyto-Estrogen on Regeneration of Black Worms
AD	2nd Place	Phillip	Brimm Medical Arts High School	
AD	3rd Place	Jason	Cherry Hill High School East	Reducing Global Warming
AD	3rd Place	Jacqueline	Cherry Hill High School East	
AD	Honorable Mention	Susana	Brimm Medical Arts High School	The Born Identities
AD	Honorable Mention	Gloria	Gateway Regional High School	Bountiful Basil and its Perfect pH
AD	Honorable Mention	Samantha	Brimm Medical Arts High School	The Born Identities
AD	Honorable Mention	Jessica	Gateway Regional High School	Bountiful Basil and its Perfect pH

Team/Life Sciences

E	1st Place	Kevin	Moorestown Upper Elementary	Is Your Way The Cleanest?
E	1st Place	Jared	Moorestown Upper Elementary	
E	2nd Place	Cameron	Moorestown Upper Elementary	Does Cross-Eye Hand Dominance Affect Your Free Throw Shooting
E	2nd Place	Kyle	Moorestown Upper Elementary	Does Cross-Eye Hand Dominance Affect Your Free Throw Shooting
E	3rd Place	Kelly	St. Joseph Pro-Cathedral School	Does Music Affect How People Speed Stack?
E	3rd Place	Linda	St. Joseph Pro-Cathedral School	
E	3rd Place	Melissa	St. Joseph Pro-Cathedral School	
E	Honorable Mention	Dany	East Camden Middle School	Fish Maze Craze
E	Honorable Mention	Durand	East Camden Middle School	
E	Honorable Mention	Patrick	Moorestown Upper Elementary	Stressed Out, How Stress Effect Kids
E	Honorable Mention	Zachary	Moorestown Upper Elementary	Stressed Out, How Stress Effect Kids
E	Honorable Mention	Peter	East Camden Middle School	Fish Maze Craze

Team/Physical Sciences

AD	1st Place	Megan	Moorestown High School	Which Biofuel Emits the Most Energy?
AD	1st Place	Sean	Moorestown High School	
E	1st Place	Victor	Aura Elementary School	The Physics of Cheating in Baseball
E	1st Place	Dylan	Aura Elementary School	
E	2nd Place	Mariah	Camden's Promise Charter School	Caustic Cola
E	2nd Place	Janiece	Camden's Promise Charter School	
E	3rd Place	Michael	East Camden Middle School	Aerodynamics vs. Velocity with a Constant Force.
E	3rd Place	Luis	East Camden Middle School	Aerodynamics vs. Velocity with a Constant Force.
E	Honorable Mention	Taina	Camden's Promise Charter School	Weathering Protection
E	Honorable Mention	Tanasia	Camden's Promise Charter School	Dissolving Alka-Seltzer
E	Honorable Mention	Tytianna	Camden's Promise Charter School	
E	Honorable Mention	Antonesia	Camden's Promise Charter School	Weathering Protection

Zoology

A	1st Place	Cynthia	Burlington Township High School	A Hairy Situation: Investigating the Function of Interommatidial Bristles in
A	2nd Place	Nadiera	Camden Academy Charter High	Embryo Development in the Presence of Nicotine and Caffeine
A	3rd Place	Emelyann	Camden Academy Charter High	Crazy Webs: Unlucky Spiders, Fortunate Flies
B	1st Place	Breanna	Brimm Medical Arts High School	Up Your Mass Worms
B	2nd Place	Dana	Cherry Hill High School East	Frequency of Diseases in Purebred vs. Mixed Breed Dogs
E	1st Place	Noah	Union Mills School	Waxworm Wipeout
E	2nd Place	Marion	William Allen Middle School	What Repels Mosquitoes Best?
E	3rd Place	Nora	Renaissance Homeschool	Stressed Stem Cells
E	Honorable Mention	Lemarr	Morgan Village Middle School	"Miracle Gro" and Black Worms: Growth and Development