

Project Number	Prize Place	Grades 7 - 12 Project Category	First Name	Last Name	Grade	Title of Project	School Name
102	4	1 Behavioral / Social Science	Sophia	Le	7	Can One's Personality (Introversion or Extroversion) affect short term memory?	St. Peter's School
106	4	1 Behavioral / Social Science	Cole	Santiago	7	How Color Affects Taste	Green Woods Charter School
113	4	1 Behavioral / Social Science	Tessa	Bensley	8	Do My Eyes Deceive Me	Meredith Elementary
116	4	1 Behavioral / Social Science	Lily	Fromal	8	Criminal Identification	McCall School
122	4	1 Behavioral / Social Science	Sean	Prusinowski	8	How does Nature vs Nurture affect middle schoolers grades	George Sharswood Elementary
143	4	1 Behavioral / Social Science	Khyrah	Blue	11	Mental Health Awareness	Temple Upward Bound / Pennsylvania Cyber Charter School
157	4	1 Behavioral / Social Science	Brianna	Wahyudi	12	Does personality mediate childhood trauma and moral decision-making?	Central High School
119	3	1 Behavioral / Social Science	Imahni	Lassiter	8	What is There to be Afraid of?	FitzPatrick Elementary
133	3	1 Behavioral / Social Science	Amber	Arbia	10	What do you do with your trash	Mariana Bracetti Academy Charter School
153	3	1 Behavioral / Social Science	Daneyah	Claitt	12	The Distracted Mind	School of the Future
115	2	1 Behavioral / Social Science	Gabrielle	Effendian	8	Beat The Clock	Meredith Elementary
140	2	1 Behavioral / Social Science	Leila	Underwood	10	Social Media and Self-Esteem	Temple Upward Bound / G.W Carver Engineering and Science
144	2	1 Behavioral / Social Science	Jocelyn	Freed	11	Does Human Pet Owner Anxiety Transfer to Their Dog?	Springside Chestnut Hill Academy
107	1	1 Behavioral / Social Science	Jiaray	Shi	7	What Color do People Associate with their Emotions?	St. Peter's School
139	1	1 Behavioral / Social Science	Samar	Oubarri	10	Effects of Placement into an MG Program on Teen Stress	Central High School

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151	1	1 Behavioral / Social Science	Jennine	Shuti	11	Forget Me Not	Philadelphia Academy Charter High School
207	4	2 Biochemistry	Nafisa	Hassan	8	Coconut Oil as an agent to prevent tooth enamel erosion	Alaine Locke Elementary
210	4	2 Biochemistry	Bella	Li	8	It's All About That Iron!	McCall School
227	4	2 Biochemistry	Mingyu	Zheng	11	The Effect of Vitamin C on the lifespan of Drosophila melanogaster	Springside Chestnut Hill Academy
232	4	2 Biochemistry	Natasha	Torres	12	Variants for Hemophilia A in the Setting of Gene Therapy	Central High School
233	4	2 Biochemistry	Natasha	Tse	12	Antibody Conjugation at the N-Terminal System	Central High School
234	4	2 Biochemistry	Kuralai	Zholdoshkyzy	12	Novel Immune target for cancer immunotherapy	George Washington High School
212	3	2 Biochemistry	Aidan	Sloan	7	Can Temperature Affect DNA	Philadelphia Academy Charter Grade School
219	3	2 Biochemistry	Elizabeth	Castellanos	11	Amount of Microplastics in Washing Machine Grey Water Based on Detergent Type and Observation of Cycle Timeline	Springside Chestnut Hill Academy
202	2	2 Biochemistry	Davida	Dockwiller	7	Enzyme Catalyzed Reactions	Green Woods Charter School
223	2	2 Biochemistry	Julia	Lieberman	11	The Effect of Chlorides on the Stress Response of Daphnia magna as an Indicator of Stream Health	Springside Chestnut Hill Academy
205	1	2 Biochemistry	Brynn	Galloway	8	Generic vs. Brand Name Pain Relievers	Philadelphia Academy Charter Grade School
218	1	2 Biochemistry	Amar	Dhanjal	10	Enzyme Catalyzed Reactions	G.W Carver Engineering and Science
230	1	2 Biochemistry	Aleena	Alex	12	Novel target against CARM1-high HGSOc cells	Northeast High School
315	4	3 Botany	Lylian	Zhang	8	Reveal the True Colors in Plant Flowers	McCall School

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318	4	3 Botany	Shree	Amin	9	do plants grow better in artificial or natural light?	Philadelphia Academy Charter High School
319	4	3 Botany	Selena	Chen	9	Ginseng Effect on Larval Fruit Fly Memory	Central High School
329	4	3 Botany	Hannah	Knox	11	How Might Brackish Water and Road Salt Runoff Affect Transpiration in Plants?	Springside Chestnut Hill Academy
309	3	3 Botany	Anna Belle	Spencer	7	Radishes on the Rise	Meredith Elementary
321	3	3 Botany	Nicole	Truong	9	Discovery Chlorophyll using Chromatography paper	Philadelphia Academy Charter High School
330	3	3 Botany	Yasmin	Kotb	11	Cellular Respiration: The Molecular Turbine	Northeast High School
303	2	3 Botany	Patrick	Holahan	7	Ready, Set, Grow	St. Mary Interparochial School
320	2	3 Botany	Sherly	Chen	9	Effect of Ginkgo Biloba on Drosophila Melanogaster	Central High School
328	2	3 Botany	Nicole	Giegerich	11	The effect of plant type on Carbon intake as a possible guide to planting for reducing global carbon dioxide levels?	Springside Chestnut Hill Academy
301	1	3 Botany	Evan	Cohen	7	How Different Colored Light Affects Plants	St. Peters School
323	1	3 Botany	Mahari	Brown	10	Bean Growth in Saltwater	G.W Carver Engineering and Science
326	1	3 Botany	Annetta	Yuwono	10	Squashing Cancer	Julia R. Masterman
409	4	4 Chemistry	Briahna	Porter	7	Best Way To Keep Cut Flowers Fresh	Ad Prima Charter School
427	4	4 Chemistry	Carla	Saunders	8	Permanent Marker On Fabric	J S Jenks
431	4	4 Chemistry	Liangda	Zhao	8	How Much Voltage and Current Can a Saltwater and Zinc Battery Make?	McCall School

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434	4	4 Chemistry	Brooke	Daehling	9	Can common household items preserve apple slices?	Philadelphia Academy Charter High School
441	4	4 Chemistry	Tiara	Andrews	11	Gram Positive Bacteria	Girard College
449	4	4 Chemistry	Lizhou	Wang	11	Decomposition of Styrofoam with Types of Essential Oils	Springside Chestnut Hill Academy
451	4	4 Chemistry	Prem	Modi	11	Vegetable Oil Biodiesel	Central High School
453	4	4 Chemistry	Daniel	Olaniyi	11	An Analysis of the Ideal Gas Theory	G.W Carver Engineering and Science
413	3	4 Chemistry	Jasper	Yokes	7	Worth Ones Salt	Meredith Elementary
438	3	4 Chemistry	Ciana	Brady	10	Essential Oils vs. Harmful Hydrocarbons	Philadelphia Academy Charter High School
456	3	4 Chemistry	Amanda	Serjani	11	The Affect Different Concentrations of Anthocyanins have on the Fertility and Birth Defects of Drosophila melanogaster	Central High School
423	2	4 Chemistry	Gavriela	Kalish-Schur	8	Creating Cleaner Water	Julia R. Masterman
435	2	4 Chemistry	Jamerika	Grandberry	9	Benefits of Composting	Temple Upward Bound / Central High
442	2	4 Chemistry	Rokibat	Bamidele	11	Can Natural Substances Replace DEET?	Central High School
402	1	4 Chemistry	Erynn	Geiss	7	Orange You Glad I Picked This Topic?	Philadelphia Academy Charter Grade School
439	1	4 Chemistry	Isabel	Portner	10	Testing The Filtration of Chromium-6 Using Ion-Exchange Resins	Julia R. Masterman
446	1	4 Chemistry	Brian	Henesity	11	Maximizing the Biosurfactant Production of B. Cereus	Springside Chestnut Hill Academy
501	4	5 Computer Science	Junming	Huang	7	Stop it, Get Some Internet	McCall school

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505	3	5 Computer Science	Jason	Yang	7	Image Format and Image Size	McCall School
504	2	5 Computer Science	Lola	Serrano-Martinez	7	Heads Up, Phones Down!	Meredith Elementary
502	1	5 Computer Science	Lawrence	Matthews	7	Blocking a WIFI Signal	J S Jenks
508	1	5 Computer Science	Miguel	Delgado	9	Which Operating System Runs Best On A Compute	Mariana Bracetti Academy Charter School
511	1	5 Computer Science	Eda	Dervishi	12	Reduce, Reuse, Recognize	Central High School
602	4	6 Earth / Space Science	Kiayanni	Gredic	7	Space Crafts	F. A. Bregy
604	4	6 Earth / Space Science	Emily	Montgomery	7	Erosion Explosion	St. Mary Interparochial School
611	4	6 Earth / Space Science	Lucas	Becker	8	Whats With Windmills	Meredith Elementary
620	4	6 Earth / Space Science	Ainsley	Rexford	11	The Impact of pre-rainfall Watering Time on Fertilizer Runoff from Sloped Lawns	Springside Chestnut Hill Academy
624	4	6 Earth / Space Science	Nikita	Tambekar	12	How long it take to turn dark after sunset.	Mariana Bracetti Academy Charter School
601	3	6 Earth / Space Science	Emma	Giordano	7	What Affects The Power of Tsunamis?	St. Peter's School
618	3	6 Earth / Space Science	Sadie	Duncan	11	Ocean Acidification and Mussel Filtration Rates	Springside Chestnut Hill Academy
605	2	6 Earth / Space Science	Paul	Ricchiutti	7	Activation Filtration	St. Mary Interparochial School
623	2	6 Earth / Space Science	Joyce	Mai	12	Climate Change on Termite-Fishing Behavior From Chimpanzees	Central High School
600	1	6 Earth / Space Science	Malaika	Bhullar	7	The Forceful Tides of Tidal Forces	St. Mary Interparochial School

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617	1	6 Earth / Space Science	Kamil	Vazquez	10	Freezing rocks	Mariana Bracetti Academy Charter School
619	1	6 Earth / Space Science	Andy	Lau	11	Effects of Simulated Martian Soil on Radish Plant Growth	Springside Chestnut Hill Academy
700	4	7 Engineering	Aanyae	Anderson	7	Arm Strong	Ad Prima Charter School
704	4	7 Engineering	Arsema	Kassahun	7	Sound of silence	Ad Prima Charter School
710	4	7 Engineering	Isabelle	Adams	8	Finding the Carrying Capacity of Different Paper Bridges	Philadelphia Academy Charter Grade School
717	4	7 Engineering	Susannah	Hall	8	Solving Philadelphia's Lanternfly Infestation	George Sharswood Elementary
727	4	7 Engineering	Jordan	Laws	12	Artificial-Muscle Assisted Brace for Rehabilitation	Central High School
706	3	7 Engineering	Andrew	Mac	7	Strength in Spaghetti	McCall School
723	3	7 Engineering	Amadou	Gueye	11	Water Filter	Northeast High School
705	2	7 Engineering	William	Kessler	7	The Best Way to Build a Flying Car	St. Peter's School
722	2	7 Engineering	Yuze	Gu	11	Aerial Photo Analysis on Disturbed Areas	Springside Chestnut Hill Academy
712	1	7 Engineering	Yori	Candidi	8	The Magic of Static!	Meredith Elementary
721	1	7 Engineering	Yashi	Patel	10	An Ohoo a Day Keeps the Plastic Away	Central High School
728	1	7 Engineering	Shane	Warner	12	Get Your Power Out of the Gutter	Father Judge
801	4	8 Environmental Science	Clara	de Groot	7	Wormageddon? Is Toxicity In Dish Detergents a Tattle Tale?	Meredith Elementary

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822	4	8 Environmental Science	Johannes	Pelzer	8	The Power of Hydrogen	McCall School
823	4	8 Environmental Science	Anna	Pratico	8	Acid Rain on Crops	Julia R. Masterman
830	4	8 Environmental Science	Xiaomei	Jiang	9	Which Odor Repel Drosophila Melanogaster the most?	Central High School
837	4	8 Environmental Science	Desiree	Rivera	10	Test A VS Test B Water Filter	Mariana Bracetti Academy Charter School
843	4	8 Environmental Science	Toby	Tang	11	Recycling of Rusted Metal	Northeast High School
844	4	8 Environmental Science	Siani	Thomas	11	Which soil is more porous?	Girard College
845	4	8 Environmental Science	Gabrielle	Woolley	11	Do the number of sites reporting to the EPA about air pollution and hazardous waste correlate with cancer rates within a township's zip codes?	Springside Chestnut Hill Academy
848	4	8 Environmental Science	Huda	Hagos	12	I Can't Breathe	G.W Carver Engineering and Science
804	3	8 Environmental Science	Jack	Jawork	7	Trash To Treasure	Meredith Elementary
833	3	8 Environmental Science	Taylor	D'Oliveira	10	Is it Really Biodegradable?	Temple Upward Bound / Charter High School of Architecture & Design
852	3	8 Environmental Science	Laura-Frances	Taylor	12	Micro-plastics: Behind the Seams	G.W Carver Engineering and Science
814	2	8 Environmental Science	Jordan	Bechtold	8	Plastic, Plastic Go Away, and Come Back Another Way	St. Mary Interparochial School
829	2	8 Environmental Science	Nina	Feinberg	9	Organic vs Conventional: Does organic produce increase fertility and provide health benefits to Drosophila melanogaster?	Central High School
847	2	8 Environmental Science	Ethan	Daguisan	12	Does money buy healthiness?	Central High School
809	1	8 Environmental Science	Eleni	Murphy	7	How do phosphates, nitrates, and fertilizers affect water oxygen levels?	St. Peters School

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835	1	8 Environmental Science	Maria	Karakousis	10	Eutrophication and cyanobacteria	Julia R. Masterman
842	1	8 Environmental Science	Cindy	Sako	11	Effect of pH and Ocean Acidification on Algae Photosynthesis	Central High School
902	4	9 Mathematics	Brian	Poon	7	What Boat Hulls/Shapes Can Carry The Most Cargo?	McCall School
901	3	9 Mathematics	James	Markham	7	Citrus Science	Meredith Elementary
904	2	9 Mathematics	Chris	Zheng	7	Using Algorithms To Speed Solve The Cube Efficiently	McCall School
903	1	9 Mathematics	Charlotte	Rotter	7	Defying Gravity	Meredith Elementary
911	1	9 Mathematics	Matteo	Rogers	11	\$7.53 candy!	G.W Carver Engineering and Science
1011	4	10 Medicine / Health	Eva	Femia	8	Produce Predictions	Meredith Elementary
1012	4	10 Medicine / Health	Alayna	Hubbard	8	If a product states it does not contain a heavy amount of metals, how honest is the producer being?	Philadelphia Academy Charter Grade School
1017	4	10 Medicine / Health	Tiffany	Zheng	8	Horizon Larger? Zenith Smaller?	McCall School
1028	4	10 Medicine / Health	Jannatun	Amika	11	Which flavor of Herr's potato chips have the least amount of calories?	George Washington High School
1032	4	10 Medicine / Health	Jade	Rivera	11	Why is breakfast important?	Mariana Bracetti Academy Charter School
1036	4	10 Medicine / Health	Deandre	Dixon	11	Athletic Performance on Field vs.Turf	Temple Upward Bound Northeast High School
1041	4	10 Medicine / Health	Krista	Xhoxhi	12	A Window Into Cell Growth Using Optical Spectroscopy	Central High School
1010	3	10 Medicine / Health	Raymond	Zheng	7	Will Scent Or Taste Impact Flavor The Most	McCall School



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1021	3	10 Medicine / Health	Kayla	Heron	9	How much do you rely on your dominant eye?	Philadelphia Academy Charter High School
1031	3	10 Medicine / Health	Claire	Moustafellos	11	Toxicity and LD50 of Magnesium	Springside Chestnut Hill Academy
1004	2	10 Medicine / Health	Valentina	McColgan	7	Does exercise Improve Blood Flow in Peripheral Artery Disease?	Philadelphia Academy Charter Grade School
1025	2	10 Medicine / Health	Kera	McCarthy	10	Leaves as human tissue?	Julia R. Masterman
1034	2	10 Medicine / Health	Maab	Taha	11	Block the Bitter: Using Sophorolipids to Suppress Bitter Taste in Malaria & HIV Drugs	Central High School
1013	1	10 Medicine / Health	Harry	Kane	8	One "Gel" of a Delivery	St. Mary Interparochial School
1027	1	10 Medicine / Health	Christopher	Sarpong	10	Night Shift	Philadelphia Academy Charter High School
1038	1	10 Medicine / Health	Synia	Boyer	12	Understanding the Role of IL-6 in Anemia of Inflammation	Central High School
1107	4	11 Microbiology	Maxine	Pallante	8	Bac(k) To the Teria II	St. Mary Interparochial School
1115	4	11 Microbiology	Soheil	Shabazz-Muhammad	9	Isolation and Identification of bacteria presence after sterilization	Mathematics, Civics, and Sciences Charter School
1124	4	11 Microbiology	Melissa	Mezieche	11	Most effective way to clean lettuce	Northeast High School
1104	3	11 Microbiology	Mia	Dagostino	8	Sugar Sugar	Meredith Elementary
1113	3	11 Microbiology	Christian	Prasetyo	9	The Effect of Excess Iron on Fruit Flies	Central High School
1127	3	11 Microbiology	Carly	Valen	11	How long after a single use does a disinfectant wipe continue to be effective?	Springside Chestnut Hill Academy
1100	2	11 Microbiology	Lena	Johnson	7	The Power of Soil	Penn Alexander School

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1120	2	11 Microbiology	Gina	Olivieri	10	How Clean is your mouth?	Philadelphia Academy Charter High School
1131	2	11 Microbiology	Daniel	Molchansky	12	FGFR3-TACC3 Translocation In A Murine Cell Model	Central High School
1106	1	11 Microbiology	David	Marmon	8	Lessening the Bacterial Count of Contaminated Wastewater	McCall School
1119	1	11 Microbiology	Jai'lyn	Lagrone-Lassiter	10	Damaging Ultraviolet Rays	G.W Carver Engineering and Science
1130	1	11 Microbiology	Taylor	Buie	12	Characterization of Potential Stress Response Mutants to Conquer Antibiotic Resistance	G.W Carver Engineering and Science/ U of Penn Sponsor
1204	4	12 Physics	Massimo	Griffiths	7	Fiber Optics	Green Woods Charter School
1208	4	12 Physics	Maren	Muller	7	Attributes of Parachutes	St. Mary Interparochial School
1217	4	12 Physics	Reidi	Gjuzi	8	Bouncy Race.	Meredith Elementary
1222	4	12 Physics	Andre	Sledge	8	??	Our Lady of Hope
1223	4	12 Physics	Duncan	Spencer	8	Ice Ice Baby	Meredith Elementary
1228	4	12 Physics	Bailee	Kates	9	Investigation into the Media Composition and Design Features of Magnesium Air Batteries	Philadelphia Academy Charter High School
1200	3	12 Physics	Dominick	Crognale	7	How Color Affects A Solar Cell's Output	Green Woods Charter School
1232	3	12 Physics	Sarvinov	Nurillaeva	10	Momentum and Collisions	George Washington High School
1209	2	12 Physics	Keniel	Rodriguez	7	Marble Roller Coaster : How Much Height To Loop The Loop?	Mariana Bracetti Academy Charter School
1231	2	12 Physics	Mokhinur	Kodirova	10	Measuring the speed of light by using microwave.	George Washington High School

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1235	2	12 Physics	Colleen	McCaffrey	11	Flame Test	Northeast High School
1224	1	12 Physics	Zoe	Steinmetz	8	Is a Technical Swimsuit More Effective than a Non-Technical Competition Swimsuit?	Philadelphia Academy Charter Grade School
1230	1	12 Physics	Alpha	Barry	10	Effect of length on the period of a simple pendulum	George Washington High School
1233	1	12 Physics	Vanessa	Cleophat	11	Dry Ice Explosion	School of the Future
1301	4	13 Zoology	Robertson	Alaiyah	8	To be determined	The Philadelphia Charter School For The Arts & Sciences
1311	4	13 Zoology	Emma	Tagliavia	10	Quit Horsin' Around	Philadelphia Academy Charter High School
1316	4	13 Zoology	Aiyi	Liu	11	Story of Sugars	Northeast High School
1302	3	13 Zoology	Lynsay	Bennett	8	Effect of Temperature on Ant Eating Habits	Science Leadership Academy Middle school
1309	3	13 Zoology	Tiffany	Wong	9	The Best Method of Anesthesia on Drosophila Research	Central High School
1317	3	13 Zoology	Keith	MacMahon	11	A Test of Social Traits of Feeding Scarlet Reef Hermit Crabs	Springside Chestnut Hill Academy
1300	2	13 Zoology	Angelia	Koesmadjie	7	Which Soil Habitat Do Earthworms Love The Most?	McCall School
1307	2	13 Zoology	Harry	McCobb	9	Finding an Onset to Parkinson's Disease	Central High School
1314	2	13 Zoology	Jadira	Foster	11	Testing the effects of manganese on coral bleaching	Homeschooled
1304	1	13 Zoology	Drini	Hamza	8	Want a whole new head?	Joseph Greenberg Elementary
1308	1	13 Zoology	Sophia	Ortiz	9	The effects of age on female fertility in Drosophila Melanogaster	Central High School

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1312	1	13 Zoology	Victoria	Cohen	11	The Effect of Varying Surfaces on Cockroach Gait	Springside Chestnut Hill Academy
1403	4	14 Team Projects	Isaiah	Thomas	7	The Reaction of Baking Soda and Vinegar in a Home Made Volcano	George Nebinger Elementary
1403	4	14 Team Projects	Felix	Saysanna	8	The Reaction of Baking Soda and Vinegar in a Home Made Volcano	George Nebinger Elementary
1405	3	14 Team Projects	Jaydn	Dutton	7	How Low Can You Go	J S Jenks
1405	3	14 Team Projects	Clarissa	Lanzas	7	How Low Can You Go	J S Jenks
1405	3	14 Team Projects	Eleanor	Palmer	7	How Low Can You Go	J S Jenks
1409	2	14 Team Projects	Pierre	Darvin	8	Soil Stress	The Philadelphia Charter School For The Arts & Sciences
1409	2	14 Team Projects	Zyaira	Sanders	8		The Philadelphia Charter School For The Arts & Sciences
1416	1	14 Team Projects	Doreen	Valmyr	12	The Relationship of Phage Concentration to E. Coli Mortality	Central High School
1416	1	14 Team Projects	Eddie	Wang	12	The Relationship of Phage Concentration to E.coli Mortality	Central High School
1501	4	15 Consumer Science	Mindy	LeNguyen	7	Which Liquid Will Dissolve A Skittle's Color The Fastest?	F. A. Bregy
1509	3	15 Consumer Science	Jada	Mckinney	8	To be determined	The Philadelphia Charter School For The Arts & Sciences
1502	2	15 Consumer Science	Charlee	Ahearn	7	The Effectiveness of Cleaning Agents on Teeth	Green Woods Charter School
1504	1	15 Consumer Science	Ethan	Steinmetz	7	Which Brand of Fishing Line is the Strongest?	Philadelphia Academy Charter Grade School