

Senior Award Winners

<u>Last Name</u>	<u>First Name</u>	<u>School</u>	<u>Category</u>	<u>Project Name</u>	<u>Prize Winners</u>	
Alexander	Ryan	Clark	Energy & Transportation	Gone With the Windmills: An Analysis of the Effectiveness of an Oscillating Wind Energy	1st Place	Grand Prize
Chang	Julie	PSHS	Animal Sciences	Genetic Screening for a New Mutant Gene Involved in the RNA interference Pathway of Drosophila	1st Place	
Jesper	Alison	Clark	Animal Sciences	Dirty Development: The Effects on Pollutants on the Development of Wasps	2nd Place	
Potter	Samuel	Jasper	Animal Sciences	Growth in Re-Tail (The effect of experimental living conditions on the rate of regeneration of the tail of Mabuya quinquetaeniata)	3rd Place	
Hansen	Josh	PSHS	Animal Sciences	Amend This: The effects of agricultural amendments on the numbers and diversity of nematode populations	HM	
McMillan	Garrett	Shepton	Animal Sciences	The Effect of the Placement of Experienced Ants in an inexperienced Colony on the Ability of the Inexperienced Ants to find and return food	HM	
Daniel	Lindsey	Williams	Animal Sciences	How Many Hands?	HM	
Suresh	Visakha	PWSH	Behavioral & Social Sciences	The Effect of Socioeconomic Determinants on Mortality During a Recession	1st Place	
Raghunathan	Sneha	Vines	Behavioral & Social Sciences	Comprehension Confusion!	2nd Place	
Raghavan	Shloka	Jasper	Behavioral & Social Sciences	A Study on Presidential Candidate Preference based on Issue Awareness and Personal Choice	3rd Place	
Wey	Shannon	Clark	Behavioral & Social Sciences	Tibetan Singing Bowls: An Ancient Health Thermometer From the Himalayas	HM	
Wang	Vicki	Jasper	Behavioral & Social Sciences	Effects of Color of Ink and Color of Paper on the Human Short Term Memory	HM	
Ye	Xinyue(Linda)	PSHS	Biochemistry	The Yeast Metabolic Cycle	1st Place	
Hargrove	Mandy	Williams	Biochemistry	Fluoride In Drinking Water	2nd Place	
Tamil	Jessica	PSHS	Biochemistry	Identifying the Lups Gene in NZW/NZB Mice	3rd Place	
Sant	Siddharth	Jasper	Cellular & Molecular Biology	Exploring Neuroprotectivity: The effects of structural differences of 4 compounds in relation to the neuroprotectivity they demonstrate	1st Place	
Simon	Austin	Shepton	Cellular & Molecular Biology	The Effect of Aloe Vera on the Regeneration of Planaria	2nd Place	

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Zhang	Chelsea	PWSH	Cellular & Molecular Biology	NHE, I Found Thee	3rd Place
Rahalkar	Aditya	Williams	Cellular & Molecular Biology	Promising Pathways: "Magic Bullet" against Cancer	HM
Syed	Farzeen	Williams	Cellular & Molecular Biology	Sugar We're Going Down	HM
Tao	Yuan	PESH	Chemistry	Photodegradation of Dyes With Quantum Dot Doped Titanium Dioxide Nanotubes	1st Place
Hegde	Shruti	PSHS	Chemistry	The synthesis and properties of a para-phenylenediamine macrocycle to capture carbon	2nd Place
Tuan	Eann	Williams	Chemistry	Look Up There: Chlorine In Your Shower Water?	3rd Place
Peddie	Daniel	Vines	Chemistry	The Effect of Volume on the Melting Rate of Ice	HM
Zhang	Janice	PSHS	Computer Science	Information Distance and Its Implementation in Spam	1st Place
Mohanty	Shayan	Clark	Computer Science	Secure our Future	2nd Place
Bastani	Favyen	Jasper	Computer Science	A Study of the Word-Level Compression	3rd Place
Lee	Darien	Vines	Computer Science	A Comparison of the Efficiency of Different Hash Functions	HM
Bharadwaj	Vybhavi	Shepton	Earth & Planetary Science	Killing Phantom Power: The Effects of Appliance Type and Global Conditions on Percentage of Leakage Electricity	1st Place
Rajagopal	Kavitha	Clark	Earth & Planetary Science	Soil Turmoil Cont.	2nd Place
Mehta	Shivani	Clark	Earth & Planetary Science	Get Mooned	3rd Place
Smither	Donovan	PSHS	Earth & Planetary Science	Earthquake Magnitudes on the Triggering of Volcanoes	HM
Ahmed	Aboki	Williams	Earth & Planetary Science	Natural vs. Artificial Polymers in Soil Additives	HM
Hirapara	Bhavik	Williams	Earth & Planetary Science	Treacherous Waves: Can You Stop Them -- or Not	HM
Alexander	Ryan	Clark	Energy & Transportation	Gone With the Windmills: An Analysis of the Effectiveness of an Oscillating Wind Energy	1st Place
Quigley	Elizabeth	Clark	Energy & Transportation	Round and 'Round It Goes 2: A Study of How Winglets Affect Wind Turbines	2nd Place
Chyao	Amy	Williams	Energy & Transportation	Keep Your Distance	3rd Place

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Bartling	Michael	Shepton	Energy & Transportation	The Effect of Radiant Barriers on the Efficiency of Fiberglass Insulation	HM	
McDermott	Kristin	Shepton	Energy & Transportation	Best Eco-Driving Tips to Save You Money and Our Environment	HM	
Simmons	Nathan	Shepton	Energy & Transportation	The Effects of the Number of Turns in the Coil of an Electric Generator in a Windmill System on the Amount of Voltage the Windmill System Produced	HM	
Joardar	Rounok	Shepton	Engineering: Electrical & Mechanical	Development of a Novel High Efficiency Photo-Thermovoltaic Concentrator Solar Cell	1st Place	
Lin	Yu-Chun	Vines	Engineering: Electrical & Mechanical	The Effect of Various Angles and Weight on the Strain of the Quadriceps	2nd Place	
Ballent	Jack	Shepton	Engineering: Electrical & Mechanical	The effect of the type of insulation on the amount of heat that enters and the time it takes the heat to enter a model house	3rd Place	
Chittajallu	Vibhu	Clark	Engineering: Electrical & Mechanical	Baby On Board	HM	
Eaves	Andrea	Williams	Engineering: Electrical & Mechanical	Reducing and Absorbing the Sound of a Lawnmower	HM	
Patel	Bijal	Williams	Engineering: Electrical & Mechanical	Land Or Sea	HM	
Chamarthy	Anand	PSHS	Engineering: Materials & Bioengineering	Smart Sea Sentinels	1st Place	
Kendrick	Travis	Vines	Engineering: Materials & Bioengineering	Safe in a Tsunami	2nd Place	
Yang	Qionggiong	PSHS	Engineering: Materials & Bioengineering	Carbon Nanotube Sheet Based Gas Sensor	3rd Place	
Adewuyi	Adeyemi	Williams	Engineering: Materials & Bioengineering	Don't Go with the Flow	HM	
Jaggi	Param	Clark	Environmental Management	The Algae-Mobile: Creating An Anti-Pollutant Device in The Exhaust Of A Car	1st Place	
Ying	Justin	Vines	Environmental Management	Rads, Radishes, and a Red Flag	2nd Place	
Liu	Lawrence	Vines	Environmental Management	Is it Getting Hot in Here? A Window Cover's Effect on Temperature Gain	3rd Place	
Murzyn	Chris	Shepton	Environmental Sciences	Soak Up the Sun	1st Place	
Ghaffar	Momin	Williams	Environmental Sciences	Must be Something in the Water	2nd Place	

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Stringfellow	Hannah	Williams	Environmental Sciences	Second-hand Medication?	3rd Place

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Ren	Kelly	Jasper	Mathematical Sciences	The Structure of Even Length Barker Codes	1st Place	
Shiao	Jean	PSHS	Mathematical Sciences	A Study on Finite Subgroups of SO(3)	2nd Place	
Vaidya	Udayan	Jasper	Mathematical Sciences	The Effects of Sampling Techniques on Genetic Algorithms	3rd Place	
Huang	Daniel	PSHS	Mathematical Sciences	Relationship Between Guessing Method and Raw Score on Multiple Choice Tests	HM	
Choi	Alexander	Williams	Mathematical Sciences	M & M: Mathematics and Music	HM	
Meyers	Taylor	Williams	Mathematical Sciences	Roll'em Up: Challenging the Theory of Probability	HM	
Michaels	Tess	Shepton	Medicine & Health	DIET & LONGEVITY SECOND YEAR STUDY: Beneficial and toxic effects of antioxidants on the lifespan of Drosophila melanogaster. Diet-induced over expression of the GCLc gene leading to de novo glutathione synthesis	1st Place	Children's Young Research Award
Shankar	Nagasri	PSHS	Medicine & Health	Identifying Biomarkers of Lupus Nephritis	2nd Place	
He	Derek	Williams	Medicine & Health	The Anti-carcinogenic Effects of Indole-3-Carbinol on Melanoma	3rd Place	
Sharma	Prateek	Clark	Medicine & Health	The Stones at War: A Study of the Enhancement of Lithotripsy	HM	
Powell	Mitchell	Jasper	Medicine & Health	The Effects of Sweeteners on the Fecundity and Mortality of Drosophila Melanogaster	HM	
Hayden	Piper	Shepton	Medicine & Health	The Unintended Consequences of Energy Saving Light Emitting Diodes (LEDs)	HM	
Schneider	Austin	Clark	Microbiology	Scrubbing the Earth-Designing a CO2 Scrubbing Bioreactor that Removes Carbon by Means of Algal Photosynthesis	1st Place	
Ravi	Suhasini	Williams	Microbiology	The Effects of Temperature on the Growth and Behavior on Physarum Polycephalum	2nd Place	
Patnaik	Ritish	Clark	Microbiology	Guard Your Teeth From Bacteria - The Herbal Way	3rd Place	
Jagani	Rizwan	Clark	Microbiology	Was the Cure Under Our Noses?: Monerals vs. Tuberculosis	HM	

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Patel	Sagar	Clark	Microbiology	Biome Showdown: The Effects of Plants from the Arctic Tundra and Temperate Forest Biome on Microorganisms	HM
Carsch	Kurtis	Jasper	Microbiology	The Effects of Varying Voltage on Staph Epi Bacteria	HM
Li	David	Jasper	Physics & Astronomy	Detecting Glucose with Light Year II	1st Place
Chatterjee	Treena	Clark	Physics & Astronomy	Where It's At: A Study of Light and It's Correlation with the Perception of Objects	2nd Place
Mahre	Andrew	PSHS	Physics & Astronomy	May the (Magnus) Force Be With You: What Makes a Curveball Curve? (Year II)	3rd Place
Gabriel	Kaline	Shepton	Physics & Astronomy	The Affect of Different Types of Window Coverings on the Amount of Skyglow	HM
Raley	Hunter	Vines	Physics & Astronomy	With or Without Winglets	HM
Black	Kayla	Williams	Physics & Astronomy	Fence It In	HM
Hart	Pamela	PSHS	Plant Sciences	Absorbance of Inorganic Contaminants by the Greater Bladder Sedge	1st Place
Sambhariya	Varun	Clark	Plant Sciences	From Blue to Green	2nd Place
Myong	Michele	Williams	Plant Sciences	The Effect of Potassium on the Efficiency of Amylase Breakdown	3rd Place
Yau	Bernice	Jasper	Plant Sciences	The Effects of Magnetic Fields on the Growth of P. vulgaris	HM
Cha	Jonathan	Williams	Plant Sciences	Macronutrition Ratio Effects	HM
Truong Shah	Brian Rohan	Clark	TEAM LIFE	Navy Scum	1st Place
Sanborn Baratifar	David Arman	Shepton	TEAM LIFE	The Effect of Bisphenol A (BPA) on Fruit Fly Reproduction and Birth Rate	2nd Place
Strecker Kalisher	Edward Justin	Shepton	TEAM LIFE	Polycomb Group Genes and Lycopene. A Molecular Genetic Investigation into the Possible Cause and Treatment of Prostate Cancer	3rd Place
De Sirkar Zhao	Sovik Justin	Jasper	TEAM LIFE	Glasses or Contacts? A Comparative Study Between Glasses and Contacts on Peripheral Vision	HM
McHenry Lam	Neil Erik	Williams	TEAM LIFE	Grain Stain: A Study of Which Fiber Makes the Strongest Rope	HM
Vadvadgi Sharma	Rohit Vaibav	Clark	TEAM LIFE	Weed Em and Reap: The Effects of Hydroponic and Aeroponic Methods on Plant Growth	HM

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Yang Lin	Mary Elisa	PWSH	TEAM PHYSICAL	A Novel Approach to Increase the Efficiency of Organic Solar Cells and to Introduce a New OLED Architecture Using Multiwalled Carbon Nanotubes as Electrodes	1st Place
Venkatraman Ravindranath	Amruth Navaneeth	Clark	TEAM PHYSICAL	Novel Control Methodologies for Conserving Energy with Electrochromic Windows	2nd Place
Satari Hanna	Niko Chris	Shepton	TEAM PHYSICAL	The Affect of a Catalyst on Nitrated Sucrose	3rd Place
Verma Paul Narapareddi	Samiha Tanya Ramya	Williams	TEAM PHYSICAL	Ink in a Blink: The Effect of UV Radiation on the Decomposition of Ink in the Process of Photodegradation	HM
Brunson Gillum	Bailey Ross	PSHS	TEAM PHYSICAL	The Effects of Rhizofiltration on Local Creek Areas	HM
Choi Acthenhagen	Calvin Marcel	PSHS Vines	TEAM PHYSICAL	Electro kinetic acceleration	HM