Date: 3/11/2016

Projects

2016

Connecticut Science & Engineering Fair

Quinnipiac University

March 15 - 19, 2016

Proj#/Category		Students/Project Title	
Ansonia		**Ansonia High School**	
3120	**LS**	Matthew Madar	**The Effect of Diet on Homeostasis in the Human Body**
Avon		**Avon High School**	
6507	**PST**	Humza Zaidi Chris Swetzes	**Renewable Hydrogen-Based Automotive Engine (HICEV): Using a Novel Electrolysis Apparatus to Improve Cost-Efficiency**
Avon		**Talcott Mountain Academy**	
2030	**L7**	Braeden Rose	**The Perfect Peanut: Effects of Cleaning Agents on the Peanut Allergen**
2035	**L7**	Aresh Pourkavoos	**Do Algorithms Dream of Electric Trees?**
2062	**L7**	Kathleen Casey	**Running Heart Rate**
2506	**L8**	Annika Mathias	**Averaged Allure: How Composite Faces Compare to Singular Faces**
2510	**L8**	Yusuf Zaidi	**Utilizing Microbes And Chlorella Vulgaris Algae To Construct An Eco-Friendly Microbial Fuel Cell**
2548	**L8**	Zan Huang	**Using Artificial Neural Networks to Diagnose Prostate Cancer Malignancy**
Bethany		**Amity Reg Middle School, Bethany**	
4001	**PT**	Victor You Benjamin Goldstein Ryan Kelley	**Emergency Oil Spill Robot**
4005	**PT**	Olivia Gross Ruth Berganross	**Musical Hands; Prosthetic Components to Assist Disabled Musicians**
4009	**PT**	Ana Boccanfuso Saunder Saffran	**The TempBot**
4013	**PT**	Laurella Marin Rhea Dey	**The Enermill**
4016	**PT**	Kayla Morgan Georgia Dalakas	**The Assister Bot**
4029	**PT**	Tracy Lu Nicole Cohen	**Litter Bot**
4032	**PT**	Andrew Gagliardi Jack Tajmajer	**Chef Bots**
5508	**P8**	Max Boynton	**Cat Bot**
5541	**P8**	Sophia Wang	**The Eco-Charge**
5567	**P8**	Michael Baitch	**The Hand-Writer Helper**
Bethel		**Bethel High School**	
3038	**LS**	Monisha Das	**Decoding Dangerous DNA**
Bethel		**St. Mary School**	
1016	**LT**	Madeline Suarez Abigail Gleissner	**Do You C The Vitamins?**
2002	**L7**	Ellenia Meehan	**Fruity Finds**
2029	**L7**	Nicole Solano	**Which Disinfectant Kills Bacteria The Best?**
2534	**L8**	Elisa Lifrieri	**Liquefaction in Action**
4007	**PT**	Gerard Kane Brendan Divincenzo	**MAGNETISM- maglev train**
5013	**P7**	Anna Meehan	**Strength of Bridges: Which bridge will deflect the least?**
5027	**P7**	Zachary LaCava	**BioFuels**
5040	**P7**	Grace Garvey	**Nuttin But a Calorie**

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5510	P8	Kevin Legnard	**Water Wizard: Incorporating the Simplicity of Water Testing Strips with the Complexity and Sophistication of a Smartphone Application While Utilizing Mathematics**
5532	P8	David Kallberg	**Wind Turbine Efficiency**
Bozrah		**Fields Memorial School**	
5506	P8	Sophia DiCocco	**Spherification**
5518	P8	Dravyn Okoney	**Producing Renewable Energy Using Piezoelectric Walking Surfaces**
5523	P8	Brendan Toth	**Investigate the Use of Mesoporous Insulations to Increase Survival Duration In Extreme Cold**
5531	P8	Victoria Smith	**Using Solar Engine Circuits to Power Electrical Devices**
Branford		**CT Experiential Learning Center (CELC)**	
2046	L7	Cade Morris	**Bovine Methane Emissions Capturing Device**
2054	L7	Galina Cooper	**An Energy Bar That Sticks Best**
4039	PT	Sue Hemingway Sophie Burdick	**BullyCheck - Designing Anti-Bullying Software**
5011	P7	Ronnie Scarpa	**How Running Shoe Design Affects Runners**
5037	P7	Christopher Meeks	**Productive Oil Spill Surface-Cleaning Method**
Bridgeport		**Black Rock School**	
2012	L7	Brianna Reyes	**Torso Length and Lung Capacity**
Bridgeport		**Blackham School**	
4006	PT	Anthony Chen Zarif Kurti	**Modeling Volcanic Eruptions with Mentos.**
4014	PT	Dianna Bustillo Alexa Reyes	**How Does Temperature Affect the Re-crystallization Process?**
Bridgeport		**Bridgeport Military Academy**	
6044	PS	Facundo Cremel	**Hydrogen, The Futures Fuel.**
6515	PST	Yadiel Quinones Kellyann Lopez	**Does water temperature effect to sublimation time of dry ice?**
6525	PST	Jacob Hyatt Luke Montanaro	**Electromagnet**
Bridgeport		**Bridgeport Regional Aquaculture**	
3032	LS	Monika Metro	**Bioencapsulating Brine Shrimp with Vitamin D3 to Find its Impact when Ingested by Lobsters**
3036	LS	Sara Beck	**Modified Compost Leachate as a Narrow Spectrum Targeting Herbicide**
3052	LS	Skylynn Reyes	**Using biochar and 8-methyl-N-vanillyl-trans-6- nonenamide as a nontoxic agricultural pest inhibitor for glycine max**
3086	LS	Katharine Morris	**Analysis of Honey Derivatives as a Functional Tumor Growth Suppressant**
3114	LS	Kylie Fawcett	**Analyzing the use of Moon Jellyfish, Aurelia aurita, Collagen as a Viable Alternative in Medical Applications**
6008	PS	Stephanie Kreitler	**Observing the Deposition Process of Synthesized of Graphene Oxide and Iron Oxide to Establish a Stable Magnetic Field**
6026	PS	Zachary Dillon	**Novel Application of an Electromagnetic Induction Field to Inhibit Surface Bio-Fouling in the Marine Environment**
6029	PS	Madeline Gill	**Development of a biochar based, sorption material to regulate nitrogen compounds in aquatic and terrestrial environments.**
6034	PS	Danielle Peterson	**Development of a Zero Net Energy Hydrogen Fuel Cell System for the Purpose of Generating Potable Water**
6039	PS	Randy Kaufman	**Triboelectric Series and its relation concerning power generation in Triboelectric Nano generators**
Bridgeport		**Central High School**	
6019	PS	Xavier Casimir	**Runaway With Me!**

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Bridgeport		**Central Magnet High School**	
6518	**PST**	Maseeha Bangi Quynh Tran	**Cardice**
Bridgeport		**Classical Studies Academy**	
2518	**L8**	CayeJree Rhone	**Gum v.s Mints**
Bridgeport		**Discovery Interdistrict Magnet School**	
5014	**P7**	Dominic Paul Gomes	**Ice, Ice, Baby**
Bridgeport		**Fairchild Wheeler Interdistrict Magnet**	
3007	**LS**	Shubhangy Raghavan	**Cancer Cell Invasion into the Stroma**
3047	**LS**	Steven Siveyer	**An Investigation into the Affect of Computer Puzzle Games on Student Test Scores**
3054	**LS**	Emma O'Clair	**Handedness and the Stroop effect**
6012	**PS**	Andrew Barbosa	**Case of The Blues**
6021	**PS**	Erik Koether	**How Does a Curved Oar Handle Affect a Rowing Stroke?**
6061	**PS**	Steven vanZyl	**Determining whether or not the Quicksort is really the quickest**
6066	**PS**	Gianna Barada	**Cell Phone Radiation**
Bridgeport		**Geraldine W. Johnson School**	
2014	**L7**	Bush Pham	**Do graphic organizers affect students' writing?**
Bridgeport		**High Horizons Magnet School**	
2037	**L7**	Rebecca Abirached	**Fogponics**
Bridgeport		**Jettie S. Tisdale School**	
1002	**LT**	Amanda Szabados Maria Garcia	**feeding plants different waters**
Bridgeport		**Multicultural Magnet School**	
5559	**P8**	Norelisa Nascimento	**Keeping It Cool!**
Bridgeport		**Park City Prep Charter School**	
1006	**LT**	D'Asia Scudder Suniya Crawley	**Enjoy It Now... Or Enjoy It Later? Understanding Delayed Gratification**
1011	**LT**	Imani Lopez Pierre Tilus	**Energy Bars: True or False**
2047	**L7**	Monica Cardenas	**Which Banana Will Rot The Slowest?**
2517	**L8**	Shantel Pena	**Quiz Me!**
4002	**PT**	Cristian Ortiz Dennis Hampton	**Evaporation Race**
4008	**PT**	Julissa Acevedo Dayhana Perez	**So Much Blood**
4031	**PT**	Gloryann De Jesus Brianna Ozoria Angoline Rivera	**Talking vs Texting**
5036	**P7**	Antonios Boudreau	**Water, Water Everywhere, But Not A Drop To Drink**
5520	**P8**	Tasia Courts	**Fast Food... Or is it Slow??**
5557	**P8**	Willow Marks	**Saltifying Shock**
Bridgeport		**Read School**	
5544	**P8**	Alexia Andrade	**Does the pH Level in Soil Affect the Amount of Electricity it Conducts?**
Bridgeport		**Roosevelt School**	
1022	**LT**	Stephan Desir Moeen Khawaja	**Are You Using the Right Toothpaste**

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Bridgeport		**Thomas Hooker School**	
5525	**P8**	Annabella Simon	**Which Sail Can Make A Boat Move Faster?**
Bridgeport		**Waltersville School**	
2523	**L8**	Jalene Rivera	**Memory Mnemonics**
5513	**P8**	Raquel Egea	**Spinning Shots**
Bridgeport		**Warren Harding High School**	
6065	**PS**	Ky Duyen Le	**Penny Cleaners**
6075	**PS**	Jais Cordonero	**The Plant and the Microwave**
Bridgeport		**Winthrop School**	
5502	**P8**	Elizabeth Terry	**Graffiti Removal**
Bristol		**St. Paul Catholic High School**	
6006	**PS**	Kamila Krawczuk	**A Novel Approach To Help Households Use Less Water**
Broad Brook		**Masthay - Homeschool**	
2021	**L7**	Allison Masthay	**Shining Light on Transpiration**
3092	**LS**	Jamie Masthay	**Exploring the Effects of Eutrophication on an Aquatic Ecosystem**
Canton		**Canton High School**	
3006	**LS**	Morgan Schroeter	**How does the amount of time under UV light affect the growth of bacteria**
6002	**PS**	John Solomon	**Rhodamine 6G Dye Laser**
6084	**PS**	Zachary Oliver	**Saxophone Overtones**
Canton		**Canton Middle School**	
4026	**PT**	Gabriel Mower Adam Obrzut	**The Note Glove**
4030	**PT**	Mark Knebel Jason Ho	**The effects of gravity on magnets**
Cheshire		**Cheshire High School**	
3005	**LS**	Shangda Xu	**Cancer Indices and Circadian Rhythm Disruption: The Influence of Geographic Location within Time Zones**
Cheshire		**St. Bridget School**	
5006	**P7**	Walker Luoma-Blagys	**Make the Wind Work for You**
5547	**P8**	Vishesh Kumar	**What Generates More Electricity?**
Danbury		**Immaculate High School**	
6003	**PS**	Nolan Ames	**Star Type's Effect On Planetary Habitability**
6042	**PS**	Martha Haddad	**Novel Glycerol-Free Biodiesel Production Using Enzyme Catalysis**
Danbury		**St. Gregory the Great School**	
1020	**LT**	Eric McNamara Thomas Fahey	**The Effect of Salt on Plant Growth**
1024	**LT**	Zachary Meyerson Dionie Smith	**Let's Go Bananas! The Effect Of Ripeness On Banana DNA Extraction**
2504	**L8**	George Hyland	**Celling Power**
2519	**L8**	Kieran Doolabh	**A Comparison of Mineral and Organic Fertilizer on the Growth of Black Simpson Baby Lettuce in an indoor, controlled Environment.**
2526	**L8**	Analiese Seaman	**An Egg-cellent Experiment**
4012	**PT**	Gianna Fanelli Sofia Suarez	**"Do All Liquids Evaporate At The Same Rate?"**
5022	**P7**	Olivia Halas	**Stretchy Science**
5521	**P8**	Elizabeth Flaherty	**Electrons...A Pet's Best Friend**

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Danbury		**St. Joseph School**	
1003	**LT**	Emma Halas Ailene Doherty	**What Genre of Music Makes You Run the Fastest?**
1015	**LT**	Patrick Iannetta James O'Keefe	**The effect of x-ray radiation on the reproduction of Fruit Flies.**
1032	**LT**	Matthew Riggs Steven Soto	**Preventing Bacteria Growth in Food**
2017	**L7**	Nora Yastremski	**The Stroop Effect**
2538	**L8**	Bradley Kerr	**Influence of Climate Change on Lobster Population in Buzzards Bay Massachusetts: Implications for Long Island Sound**
4040	**PT**	Shayne Simmons Diego Echavarria	**Kings of Slings: The Efffect of Sling Length on a Trebuchet**
5004	**P7**	Elias Haddad	**Efficient Low Energy Salt Water Desalination**
5509	**P8**	Sean Guiry	**Different Quantities of Blades Used for Producing the Most Power**
5533	**P8**	Brigid Gage	**Electrolytes: Which Sport Drinks Helps the Body Recovery the Most After An Endurance Workout?**
5558	**P8**	Olivia Casino	**Cleaning up Oil Spills - What Material is the Most Absorbent?**
Danbury		**Westside Middle School Academy**	
1023	**LT**	Sarah Johnson Anjeli Joseph	**Mutagenesis in Bacteriophage Phi X174 to Induce a Target Host of Escherichia Vulneris**
2005	**L7**	Lasya Josyula	**Study of Various Starch-based Biopolymers**
2009	**L7**	Nicholas Raslavsky	**Ground Level Ozone in Danbury**
2031	**L7**	Luke Hickey	**Dirty to Clean**
2049	**L7**	Benjamin Laham	**Effect of Watering Green Vegetable Plants With Chlorophyll-Rich Solutions to Increase Overall Chlorophyll Content**
2529	**L8**	Sarah Barta	**Can A Mineral Based Water Filtration System Eliminate Daphnia Preventing Dracunculiasis?**
5009	**P7**	Connor Barrigas	**How Does Angle and Distance Affect Splatter?**
5035	**P7**	Gryffin Syme	**Effect of Nozzle Size for Compressed Air Water Rockets**
5530	**P8**	Jeffrey Osborne	**Harvesting Wind From Street Canyons Using A Double Helix Wind Turbine**
5561	**P8**	Sanjana Shriram	**The effect that different ingredient ratios have on the mechanical strength of bioplastics.**
Darien		**Darien High School**	
3022	**LS**	Mahoghany Dolberry	**Examination of Mere Proximity and Race in Adults Focusing on Intelligence and Wealth/ Social Standings**
3060	**LS**	Katie Tsui	**The Influence of the LGI-1 Gene on Cognition of APP/PS1 Alzheimer's Disease Mouse Models**
3107	**LS**	Sarishka Desai	**Targeted Therapies for KRAS Mutant Cancers**
3123	**LS**	Johnathan Stimpson	**The Relationship Between Exposure to Proton Pump Inhibitors and Risk for Bacteremia in ICU Patients: A Retrospective Cohort Study**
6060	**PS**	Samuel Pfrommer	**Relationships Between Current, Angular Velocity, and Torque in Position-Controlled Servos**
6508	**PST**	Brendan Berrigan Andrew Benz	**Continuous Water Quality Monitoring and Controlling for Aquaculture Systems**
Enfield		**St. Martha School**	
1008	**LT**	Kayleigh Leduc Mary Eckel	**Exploring The Chemistry of Red Flower Pigments**
1010	**LT**	Isabella Piazza Jacqueline Beaulieu	**Bye-Bye Bacteria: The Effect of Different Disinfectants on the Growth of E.coli**
1029	**LT**	Antony Auzina Colby Corriveau	**Backyard Biofuel (Which plant makes the best biomass briquette?)**
2003	**L7**	Stephen Rougeot	**Si High, Low, or No: Algae where would you like to grow?**

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2010	L7	Katherine DeVito	**The Effect of Caffeine on Plant Growth**
2052	L7	Matthew Emerson	**The Power of Fruits and Veggies! How Much Electrical Power do they produce?**
2524	L8	Ashley Harding	**Exploring the effects of acids and temperature on the rate of corrosion**
2543	L8	Alessandra Good	**acid-base chemistry: bath bombs**
Fairfield		**Fairfield College Preparatory School**	
3015	LS	Jonathan Siveyer	**Examining the effectiveness of phytoremediation of heavy metals in water using Elodea Canadensis and Brassia Junce.**
6049	PS	Haoxiang Zhang	**Making Wonderful Pictures**
6052	PS	Hanson Mo	**Application of Computer Vision in Pupil and Eye Center Tracking**
6058	PS	Junlin Mo	**On Analyzing Modern Quantum Computation**
Fishers Island		**Fishers Island School**	
3010	LS	Mackenzie Switz	**Densities of Phytoplankton in an Acidic Ocean**
3013	LS	Elias Kane	**Assessing the Efficiency and Ecological Impact of Various Anti-fouling Methods**
3070	LS	Charles Snyder	**De-Statolization; The Effect of Ocean Acidification on Squid**
3074	LS	Alan Eastman	**Sugar Rush**
3087	LS	Thaddeus Allen	**Effect of Music and Art Therapy on Human Heart Rate**
Forestville		**St. Matthew School**	
2038	L7	Nina Zwolinski	**Building a Prosthetic Hand**
2045	L7	Sophia Gerst	**Prosthetics Making the disabled able.**
2531	L8	Daniel Gaudoin	**Designing a Water Purification System**
2540	L8	Seokhyun Hong	**Designing a Water Purification System**
Glastonbury		**Glastonbury High School**	
3021	LS	Patrick Cantwell	**KDM6B expression and the Polycomb complex in osteosarcoma tumors via immunohistochemistry**
3031	LS	Shawn Perry	**Membrane-bound receptor genes' roles in osteosarcoma tumorigenesis**
3040	LS	Reshana Homma	**Identification of Differentially Expressed Genes of Membrane-Bound Proteins as Potential Targets for Osteosarcoma Therapy**
3049	LS	Mikayla Morosky	**Assessing the Effectivity of Instructional Videos in Medical Education: A Meta-Analysis Study**
3069	LS	Kanika Malani	**Significance of osteosarcoma tumors of different stages, histological phenotypes, and clinical outcomes on the expression of BMPR2**
3075	LS	Pallavi Reddy	**THE CHANGES IN GENE EXPRESSION BETWEEN NORMAL BONE CELLS AND OSTEOSARCOMA TUMOR CELLS**
3095	LS	Sara Tavakoli	**Structure-Activity Relationship Study of Dual Inhibitors of Streptococcus Pyogenes and Methicillin-resistant Staphylococcus Aureus**
6004	PS	Taylore Westbrook	**Sudoku Algorithm Efficiency**
6041	PS	Ninad Vora	**Sustainable Elementary School**
6050	PS	Nikki Pet	**Transport to the Future**
6054	PS	Danielle Cai	**Effectiveness of Amino Acid-Functionalized Gold Nanoparticles for Colorimetric Detection of Mercury in Water**
Glastonbury		**Smith Middle School**	
5526	P8	Arjun Ahilan	**Li-Fi: How bright should LEDs be to accurately transmit data?**
Greens Farms		**Greens Farms Academy**	
3011	LS	Jack Mackle	**The Potential to Revolutionize Orthopaedic Materials: Magnesium Alloy with Calcium-based Coating to Slow Degradation Rates of Implants**
3019	LS	Abby Viton	**Evaluation of the Health of Bermuda's Reefs Based on Fish and Coral Populations**
3094	LS	Noah Sonnenberg	**Experimentation and Analysis with Melanoides Tuberculata in a Stable and Self Sufficient Aquaponic System That Produces**
3117	LS	Erica Im	**Effect of He-Ne laser on oral bacteria, Streptococcus mutans, using Gram stain.**
5505	P8	Ethan Lior	**De-icing: Identification of materials with the capability to lessen the impact of ice formation on roadways**

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6005	PS	Simon Stone	**Optimization of the Venturi Effect With Applications in Horizontal-Axis Hydroelectric Turbines in Order to Maximize Power Coefficients**
6017	PS	Jules Becker	**Dynamic Sound Localization for Mobile Devices**
6020	PS	Anders Bottger	**Energy Harvesting Performance and Applications of Piezoelectric Fiber Composites**
6023	PS	John Gartland	**Image Segmentation using a Convolutional Neural Network Algorithm for Robotic Applications**
6051	PS	Robert Marcus	**Design and construction of a 3D-Printed carbon fiber semi autonomous intelligent powered exoskeleton for spinal cord injury patient general use and rehabilitation**
Greenwich		**Brunswick School**	
3043	LS	Jack Driscoll	**An investigation of the ability of Pseudomonas putida to counteract the vasodilating effects of nicotine in blood vessels of Carassius auratus**
3056	LS	Nick Saah	**Optimizing growth of Phaseolus vulgaris using Hawaiian Cinder Cone soil as a proxy for agricultural conditions on Mars**
3082	LS	John Stefanou	**Observing the Synergistic Effect of Pesticides on Terrestrial and Aquatic Ecosystems**
3524	LST	Thacher Scannell Edward Camel	**Acropora and Anacropora Grafting: A Feasible Method to Reestablish Zooxanthellae Colonies following a Traumatic Bleaching Event**
3527	LST	Alexander Wada Colin MacFaddin	**Investigating the feasibility of a cooperative yeast-algae biofuel production system and its effects on biomass and resulting impurities**
6031	PS	Lachlan Rosato	**Improving Standard of Living for Refugees: Use of Recycled Materials to modify internal temperature and dryness, and to provide electricity and water in tented housing**
6037	PS	Wesley Peisch	**Optimizing Efficiency of Urban,Track-based Rapid Transit Systems**
6504	PST	Matthew Jacobson Avi Mukherjee	**Improving Methodologies for Preclinical Data Collection: Tracking Motion of Biological Test Subjects in Laboratory Environments**
6511	PST	Andrew Mellert William Gorman	**Soil Remediation: Removing Contaminants by Means of Thermal Desorption Followed by Remineralization Through Addition of Organic Material**
6524	PST	Siyan Shaikh Tucker Calcano	**Extracting DNA from Canis latrans to Understand Interrelatedness Among a Transient Population**
6529	PST	Matt Restieri Chris Burdick Greyson Wolfram	**The Future of the Prosthetic Limb: Sacrificing Visual Aesthetics and Individualized Movement to Yield Greater Strength and Utility**
Greenwich		**Convent of the Sacred Heart**	
2509	L8	Giselle Grey	**Acidification of Oceans**
Greenwich		**Greenwich Catholic School**	
1009	LT	Dylan Lombardo Will Carroll Martin Santos	**Wormaculture**
1028	LT	James McCann Sean Robichaux	**Terrific Tardigrades**
4025	PT	Daniel Mabes Andrew Lencyk	**Blown Away**
4027	PT	Dylan Allman Harrison Day	**Catch Me If You Can**
Greenwich		**Greenwich High School**	
3002	LS	Sanju Sathish	**The Optimization of Nanoparticle-based Drug Delivery of Melittin in A Selective, Biocompatible Method to Target HIV Structural Antigen p24**
3004	LS	Derek Woo	**Battling Honey Bee CCD via Reduction of Neonicotinoid Content in Guttation Droplets using Biochar Soil Additives**
3008	LS	Takema Kajita	**Investigating the Proteolytic Effect of Serine Protease Against Staphylococcus Aureus Biofilm Formation on Glass and Stainless Steel Surface Chips**
3012	LS	Madeleine Zhou	**Selective Improvement in Anti-Cancer Drug Sensitivity via D-Glucosamine Inhibition of STAT3 Oncogenic Expression**
3029	LS	William Yin	**Development of a Portable, Tattoo-Based Biosensor for the Non-Invasive, Low-Cost Diagnosis of Atherosclerosis via Iontophoresis of Macrophage-Targeting Silver Nanoparticles**

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3033	LS	Michelle Woo	**Open-Wound Administration of Coagulant and Antibacterial Therapeutics via CaCO3 Microparticle Self-propulsion**
3065	LS	Shobhita Sundaram	**In silico Prediction of Breast Cancer Cellular Response to Drug Therapies using Random Forests Algorithms**
3078	LS	Margaret Cirino	**Synthesis of Thermosensitive Magnetoliposomes for the Treatment of Atherosclerosis via Controlled Drug Delivery & Magnetic Hyperthermia**
3081	LS	Rahul Subramaniam	**The Effect Of Common Cold and Flu Medications on Gut Bacteria**
3085	LS	Henry Dowling	**Delivery of Docetaxel via a Modified PEGylated Graphene Oxide Carrier to Inhibit Growth of Prostate Cancer Stem Cells**
3088	LS	Agustina Stefani	**Facilitated Delivery of Mitoxanthrone Chemotherapy via High-load Citric Acid Coated Magnetite Nanoparticles**
3100	LS	Teresa Zheng	**Enhanced Cellulolytic Enzyme Production by the Synergism between Trichoderma reesei and Aspergillus niger for the Production of Cellulosic Biofuel via Enzymatic Saccharification of Perennial Wheatgrass.**
3110	LS	Michelle Xiong	**Oral delivery of insulin therapy via low cost, pH sensitive hydrogels**
6015	PS	Devyn Zaminski	**Self-Sustaining Biosynthesis of Methane from CO2 via a Microbial & Electrochemical Hybrid System**
6043	PS	Wesley Heim	**Construction of an Agonistic Pneumatic Artificial Muscle Air Conservation System**
6048	PS	Connor Li	**Fabrication of a Magnetically Vertical-Aligned Boron Nitride Nanotube Membrane in a Lyotropic Precursor for Salinity Gradient Power**
6055	PS	Christopher Popham	**Increased Charge Rate and Capacity for Olivine Lithium-Ion Batteries Using Efficient, Upcycled Nanoscale Electrodes**
6057	PS	Haley Stober	**Water Droplet Repulsion and Reduced Icing Tendencies on Superhydrophobic Surfaces**
Groton		**Sacred Heart School**	
2036	L7	Diego Cruz	**Do All Liquids Release the Same Amount of Gas in the Stomach?**
2511	L8	Bethany Chavez	**What Happens When Eggs are Exposed to Vinegar?**
2528	L8	Melissa Mancuso	**Does Eye Color Affect Peripheral Vision?**
2532	L8	Lauren O'Donnell	**T.E.E.T.H The Egg Enamel Teeth Heath watch**
2539	L8	Emma Smith	**CAN YOU FIND THE THE MISTAKE? 1 2 3 4 5 6 7 8 9**
5039	P7	Michael Luzzio	**Induced Magnetism - Applying Lenz's Law**
5517	P8	Breanna Hoth	**Melting Ice with Sand and Salt**
5519	P8	Isabella McClure	**The effect of menu labeling with calories on food selection and consumption**
5524	P8	Alexander Warmus	**Electrolytes and Health**
5549	P8	Mark Smith	**Power From Potatoes**
Guilford		**E.C. Adams Middle School**	
1005	LT	Edward Glover Anthony Ippolito	**The Effect of Different Types of Fruit on the Amount of DNA Extracted**
1030	LT	Sydnie Schlagheck Rosabianca Corbett	**Effect of Using An Electronic Before Going to Sleep On Deep Sleep Pencentage**
2008	L7	Juliet Young	**The Effects of Alternative Fertilizers (Eggshells and Coffee Grounds) on the Growth of Radishes**
2040	L7	Veronica Zimmer	**The effect of acidity on bacteria growth from toothbrushes**
2067	L7	Kevin Marquis	**The Effect of pH Levels on Grass Growth**
Hamden		**Hamden High School**	
3089	LS	Aakshi Agarwal	**CRISPR Based Gene Editing Confers Resistance to Human Immunodeficiency Virus (HIV)**
6011	PS	Akshar Agarwal	**OptiEye - A Vision for the Future of Eye Care**
6035	PS	Scott Hotchkiss	**Dynamic Gait Generation via Neuroevolution for use in Autonomous Robots**
6079	PS	Ayush Dalmia	**Differentiation Between Fresh And Used Cooking Oils**

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Hamden		**Hamden Middle School**	
1012	**LT**	Mariam Khan Camaryn Reynolds	**Delicious or Dangerous**
2542	**L8**	Ella Bradford	**Death & Daphnia**
4037	**PT**	Paige Campbell Katherine Bergherr-Hall	**Nitrates and pH and Rain, Oh My!**
5536	**P8**	Jenna Estacion	**Measuring the strength of selected origami structures in order to build useful configurations like furniture.**
5540	**P8**	Quintin Ioime	**Need To Charge Your Cell Phone? Leave It To The Wind**
5555	**P8**	Lizabeth Bamgboye	**Propeller Power**
Hamden		**Sacred Heart Academy**	
3030	**LS**	Catherine Herrick	**Using the Physiological Energetics Model to Study the Effects of Contaminating Microscopic Plastic Particles on Blue Mussel, Mytilus edulis**
3048	**LS**	Vivian Wang	**The Effects of Technology on Aging**
3105	**LS**	Katie Gray	**The Impact of Anti-bacterial Properties of Various Types of Tea on the amount of E. coli**
6027	**PS**	Laura Mocciola	**Examination of Different Wet Scrubber Sorbents in Reducing Acid Rain Production and Removing Solid Pollutants**
6067	**PS**	Ashley Amarante	**Is Oobleck the Key to Solving Beach Erosion?**
6076	**PS**	Elizabeth LoPreiato	**A Practical Use of the MFC Partial Air Cathode: Improving Performance by Implementing a New Design for Applications in a Conventional Septic System**
6083	**PS**	Audrey Seyfried	**Is There Tin in My Fish?**
6517	**PST**	Eunji Lee Priya Patel	**Printing Skin: Using Different Polymer Filaments to Print a Prosthetic Covering**
6530	**PST**	Jiwon Jeong Madison Brenchak	**The Effect of Environmental Temperature on Glow Time of the Chemiluminescence of Luminol**
Hartford		**Environmental Sciences Magnet at**	
1025	**LT**	Connor Rego Keegan Miller	**Got Bugs? A study of arthropod diversity and abundance**
2001	**L7**	Tyler Schloss	**How does soil pH affect bean plants?**
2004	**L7**	Natalie Reeves	**Substrate and Vegetation Preference in Zebra Danio Spawning: A Study of Breeding Triggers**
2058	**L7**	Alennie Cosme	**Breeding in the Rain**
2507	**L8**	Austin Zemsta	**Man Vs Wild: A Study of Plant Biodiversity in Overgrown Ecosystems**
2527	**L8**	Jacob Naticha	**Toadiet**
2537	**L8**	Zackery Parsadanov	**There is Something in the Water**
2545	**L8**	Masudur Rahman	**Growing Plant Cuttings**
2550	**L8**	Tussan Hoyt	**Hatch by Day, Hatch by Night: Brine Shrimp Egg Hatching Rate With Exposure to Light**
5016	**P7**	Kevin Braunwart	**Corked?**
Hartford		**Kennelly School**	
1017	**LT**	Genesis Vazquez Gabriella Perez Victoria Rodriguez	**How good is your yogurt?**
2019	**L7**	Terryn Mahon	**Don't hate the player hate the game**
2057	**L7**	Daialy Amparo	**Fingerprints - Alike or Random?**
2063	**L7**	Alysha Zayas	**Are phones taking over our lives?**
2516	**L8**	Natalya Davis	**how does location affect PH levels in water**
2541	**L8**	Demetrius Lee	**Smoking Changes from 2012-2014**
2552	**L8**	Damontey Harrison	**THE WAY OF THE FUTURE- A LOOK AT MAKING BIOFUEL FROM DIFFERENT PLANTS**

Proj#/Category		Students/Project Title	
5031	P7	Angelica Jiminian	**Is the anti-gas drug simethicone effective in getting rid of trapped gas**
5543	P8	Chris Espinal	**Size & Pitch**
Hartford		**Sport and Medical Sciences Academy**	
5005	P7	Madison Lee	**Natural Plastic**
Hebron		**Oei - Homeschool**	
5026	P7	John Oei	**Hydropower Tiles: A Novel Approach to Harvesting Energy from Human Locomotion**
Hebron		**RHAM Middle School**	
2522	L8	Isabelle Benson Clarke	**Computer simulation if segregating students by classroom during lunch time during a viral outbreak will reduce the length of the viral outbreak and the number of students infected.**
Kent		**Kent School**	
3101	LS	Mi Hu	**Application of Drosophila male courtship choice in Alzheimer's disease research**
Lakeville		**The Hotchkiss School**	
6045	PS	Byul Sohn	**Metal Oxide Nanoparticles in Hexane Reactions**
Madison		**Daniel Hand High School**	
6053	PS	Ankita Roychoudhury	**A practical method for CO2 capture by recovering dissolved CO2 in ocean water.**
Manchester		**Manchester High School**	
3068	LS	Jay Dalal	**Effect of Effect of Marine Aquaculture in Classroom On Atlantic Horseshoe Crab (Limulus Polyphemus) Growth and Development.**
Manchester		**St. Bridget School**	
5015	P7	Matthew Prior	**Pounds Per Square Inch (PSI) of a Basketball**
5501	P8	Myia Chappell	**What Substance Melts Ice The Fastest?**
5568	P8	Ashleigh Purcell	**Testing to Improve the Performance of a Magnetic Linear Accelerator**
Manchester		**St. James School**	
4003	PT	Kate Leyden Max Lambert	**Nailed It** **Nails and Liquids That Corrode Them**
4011	PT	Chris Constantine Alexander Gregery Setzler	**Reflected Light: What material reflects the most light?**
4018	PT	Nathan Kincheloe Anna DeLaura	**Does Your Age Affect Your Reflexes**
4024	PT	Maeve Williams Izabella Ray	**Dancing Oobleck**
4033	PT	Colleen Truman Alice Tyszka	**Glowing Minerals**
Meriden		**ACES Thomas Edison Middle School**	
1014	LT	Kelly Tran Gabriella Dearborn	**Which Beverages Stain Your Teeth The Most?**
2048	L7	Patrick Wiliarty	**Do different types of music affect the rate at which domesticated cats eat?**
4022	PT	Brianna Oliveras Mikaela Mitchell	**Is Sharpie Extreme Really Permanent?**
4038	PT	Adriana Aponte Majda Adnane	**Hitting the Slopes**
5019	P7	Kaya Cook	**How Does Height Affect Structure Stability?**
5024	P7	Elyssa West	**How does the shape of the blade affect the Voltage?**
5028	P7	Noah Anderson	**Renewable Energy**
5503	P8	Kaitlyn Newman	**Tracking storage capacity on media discs**
5516	P8	Ke-Aira Spells	**Coastal Engineering**
5570	P8	J H Naeem	**Electromagnet Electricity**

Proj#/Category		Students/Project Title	
Meriden		**St. Joseph School**	
2505	**L8**	Teresa Haggerty	**Does Music Affect Heart Rate?**
2520	**L8**	Annelise Montuori	**Why do certain colors stand out to certain people more than others?**
2544	**L8**	Madison Whittle	**Results and Effects of Changes in Youth Basketball Positions**
2551	**L8**	Alexis Wozdusiewicz	**What method keeps cut flowers fresh the longest?**
5010	**P7**	Madelynn Kunze	**Milk Plastic**
5038	**P7**	Sydney Mcintosh	**which brand of popcorn has the least amount of un-popped kernel after you pop it?**
5511	**P8**	Mary Sirois	**What type of cup keeps coffee the hottest the longest?**
5542	**P8**	Emily Cruz	**Do Colored Candles Burn Faster or Slower Than White Candles?**
5553	**P8**	Aidan Lewoc	**Drop Test**
5564	**P8**	Emily Esposito	**Freezing Hot and Cold Water**
Middlebury		**Westover School**	
6009	**PS**	Caleigh Waskowicz	**The Arc Assist: Designing A Device to Assist Disabled Patients with Sit to Stand Transfers and Ambulation**
Middletown		**Xavier High School**	
6532	**PST**	Evan Rigsby Christopher Yerxa	**How Acidic are our Oceans? pH of Sea Water VS Varying Amounts of Carbon Dioxide stoichiometrically calculated from three fuels**
Milford		**St. Gabriel School**	
2064	**L7**	Madilyn Lula	**Shorty**
5025	**P7**	Jacob Fleischer	**Wind Power**
5514	**P8**	Ethan Wicko	**Wire Recording**
5538	**P8**	Gabriel Quinn	**The Effect Temperature Has on UV Beads**
Monroe		**St. Jude School**	
2039	**L7**	Jacqueline O'Brochta	**Snuggly Cuddly Puppies: Puppies Keeping Warm**
2503	**L8**	Olivia Peterson	**Utterly Sour Milk**
New Britain		**CREC Medical Professions & Teacher**	
3072	**LS**	Hardhik Kummamuru	**Microwaved Sprouting**
New Canaan		**St. Aloysius School**	
4036	**PT**	Lauren Young Sopihie Stachurski Angelica Clifford	**Effective Use of Membranes on Evaiporation**
New Haven		**Engineering Science University Magnet**	
2032	**L7**	Suchitha Misra	**Green Growth**
2041	**L7**	Sreeya Gudlavalleti	**PEST'S CONTROLLING US!**
2050	**L7**	Meghana Cheela	**How do microbeads affect plants?**
3016	**LS**	Lauren Low	**An Evaluation of the Accuracy of an Advanced Nanoribbon Microfluidic System to Measure Cytokine Concentration**
3084	**LS**	Sumanth Kondapalli	**How do varying kinds of enzymes effect the efficiency of enzymatic hydrolysis on lignocellulic material to produce cellulosic ethanol through fermentation**
5002	**P7**	Eva Heaphy	**Does Distance From a Nuclear Power Plant a Affect Plant Growth?**
5021	**P7**	Jacob Papazoglou	**Wood Strength**
5032	**P7**	Rachna Vipparla	**How do plants effect erosion?**
5545	**P8**	Arya Bairat	**Polyvinyl Alcohol/ Borax gel experiment relating with aviation technology**
5552	**P8**	James Rodrigues	**Is it Eco-Friendly?**
6022	**PS**	Prastik Mohanraj	**An Approach to Converting Pollutant CO2 Emissions into Methanol Fuels to Reduce Environmental Harm from Greenhouse Gases**

Proj#/Category		Students/Project Title	
New Haven		**Hill Regional Career High School**	
3518	**LST**	Ghadah Ali Selma Abouneameh	**Extracting Streptomyces From Soil**
6526	**PST**	Mike Olivares Rich Tran	**Battery Endurance**
New Haven		**St. Aedan- St. Brendan School**	
2530	**L8**	Jeremiah Vidal	**ELECTROLYTE CHALLENGE**
5029	**P7**	Amanda Simpson	**MAKING CHEESE AT HOME, AS EASY AS 1-2-3?**
5569	**P8**	Rehab Senanu	**Calibrating the agility of light with a microwave oven.**
New Haven		**The Foote School**	
2536	**L8**	Anjali Mangla	**Online Homework and Screen Time: Are We Going in the Right Direction!**
New Haven		**Wilbur Cross High School**	
3045	**LS**	Sophie Edelstein	**Polyetherketoneketone (PEKK) Surgical Implant: An alternative cure for Internal Coxa Saltans in Female Adolescents**
6038	**PS**	Maya Geradi	**Exploring conditions for Struvite precipitation and crystal growth.**
New Haven		**Worthington Hooker School**	
2023	**L7**	Taivan Jargalan	**Death of Bouquets**
2056	**L7**	Sadie Turner	**Plants: Natures stabilizer**
2514	**L8**	Michael Bencivengo	**Hydroponics Vs Soil Gardening**
4004	**PT**	Juliette Ranelli Mei Han	**Salty Electrons**
4015	**PT**	Jason Lampo Declan McGinley	**Magnetic Pull; Hot VS Cold**
5012	**P7**	Alexandra Northrup	**Acing the Wing**
5017	**P7**	Catalina Homann	**Hot Plop Fizz. Hotter Plop fizz. Hottest Plop Fizz**
5507	**P8**	Ana Padilla	**What Color Light Shines Brightest Through Fog?**
New London		**Science and Technology Magnet HS**	
3027	**LS**	Kathryn Ashbey	**Bioaccumulation of Methylmercury in the Poquonnock River System and its Implications for Local Fisheries**
3039	**LS**	Tessa Rock	**After crude oil has been added to wild caught phytoplankton, does Dawn soap help the phytoplankton or does it deform it to a greater effect?**
3044	**LS**	Adriana Diaz	**Effects of Temperature on Oxygen Productivity of Wild Caught Phytoplankton**
3059	**LS**	Kristen Sinagra	**The Effects of Shade Tolerance and Chlorophyll Density in Ulva sp. Cells**
3099	**LS**	Sylvia Guijarro-Sines	**The Effects of Hydrocarbon Exposure on Expression of the CaMV 35S Promoter in Genetically Modified Soybeans**
3106	**LS**	Chloe Sherman-Watson	**The Effect of Nitrate Enrichment on the Ability of Nannochloropsis sp. to Offset Ocean Acidification**
3502	**LST**	Clara-Luz Hoffman Moli Michel	**Runoff Effects on the Burial of Hermit Crabs**
3509	**LST**	Precious Ehwarieme Leon Bolle	**The Effect of Polarized Water on the Brassica rapa**
3522	**LST**	Madison Keefe Cora Sawyer	**Nitrogen, Phosphorous, Potassium ratio effect on plant growth.**
6068	**PS**	Emma Hurley	**Determining the Stress that Osmotic Balance, pH and Detergents have on Biological Membranes**
6073	**PS**	Noah Smith	**Is Corking a Wood Bat a Real Advantage?**
6506	**PST**	John Burnett Austin Huang	**Using Heat Sinks In Integrated Photovoltaic Systems To Enhance Hydrogen Production Through Electrolysis**
6513	**PST**	Nathaniel Bland Ethan Barnes	**Electromagnetism as an alternate source of power?**

Proj#/Category		Students/Project Title	
6522	PST	Brynn Doughty Alyse Cornish	**Optimization of Hydrofoil Performance Through Hybridization of Base Design**
6528	PST	Woodrich Pierre-Louis Oscar Calcano	**The Efficiency of Bio diesel Blends compared to diesel engines**
New London		**St. Joseph School**	
2028	L7	Megan Banach	**Stressed Out**
2066	L7	Kyle Egan	**How Does Being Watered With Different Liquids Effect A Plants Growth?**
5548	P8	Victoria Hannaford	**Mirrors Mirrors Reflecting On the Wall**
5562	P8	Caroline Codner	**The Rainbow Connection**
New Milford		**New Milford High School**	
6010	PS	Jack Day	**Modern Magnetism**
6503	PST	Kurt Zarba Cal Martin Aiden Collentine	**The Phone Throne**
6516	PST	Andrew Raciti Mark Chastain Kellen Ness	**EZ Bridge**
6523	PST	Alison Bailey Brodin Raymond Jordan Fox	**Se.F.T. (Self Folding Tent)**
6527	PST	Chris Usaty Anthony Altermatt Michael Lanoce	**Snowboard Trampoline Trainer**
6531	PST	Dallas Kelly Alicia Lungo Brett Leonard	**The Everything Hanger**
Newington		**John Wallace Middle School**	
4017	PT	Hannah Siegel Emilio Cruz Evan Lopes	**Leaf Chromatography**
Newington		**St. Mary School**	
2547	L8	Michelle Di Cicco	**Which type of allergy decongestant dissolves in stomach acid the fastest?**
5033	P7	Patrick Smith	**How Do Surfaces Affect the Speed of a Car?**
5512	P8	Samuel Baker	**Does Increasing Bass Frequencies on a Loudspeaker Also Increase Its Overall Output?**
Newtown		**St. Rose of Lima School**	
2006	L7	Torin Kearney	**The effect of fertilizer quantity on algae growth.**
2013	L7	Madelaine Simms	**the effect of different fertilizers on grass**
2026	L7	Mackenzie Ciambra	**The effect of liquid medicine on plant growth**
2044	L7	Liam Wolson	**Testing the Effects of Water Permeability in Locations with Different Soil Types**
2055	L7	Madeline Rader	**The Effect of 35, 65, and 85 Degree Water on the Spread of Oil Spills**
5001	P7	Kathleen Tokar	**The Effect of Various Solutions on Shells**
5007	P7	Peyton McKenzie	**THE EFFECT OF REFLECTIVE LIGHT ON SOLAR ENERGY PRODUCTION**
5534	P8	Marianella Salinas	**Construct and build a working turntable.**
North Haven		**North Haven Middle School**	
1031	LT	Tyler Karasinski Stephen Borrelli	**Are Biodegradable Kcups more Environmentally Secure than Normal Ones?**
2022	L7	Soo Yeon Lee	**What is the perfect absorbent for used cooking oil?**
2033	L7	Luke Barrett	**Developing a low-cost Green Algae Photobioreactor**

Proj#/Category		Students/Project Title	
4020	PT	Sydney Rastkhane Gabrielle Weaver Tinisha Narain	**Desalinating Seawater for Various Survival Uses**
4023	PT	Laekhram Singh Brijesh Vyas	**How does the angle of a solar panel effect the electricity absorbed?**
5546	P8	Isabella Morizio	**Tremor Resistant Writing Tools: Calligraphy for the Disabled**
Norwalk		**Roton Middle School**	
2018	L7	Sarah Signore	**Does the Color of Light Effect Plant Growth?**
2027	L7	Jane Hussey	**Tap, Fizz, Vitamins**
5539	P8	Cooper Grillo	**Snap!**
Norwich		**Norwich Technical High School**	
3001	LS	Alexandra Smith	**Stomping Out Stigmas Associated With Depression**
3083	LS	Monica Haight	**A Look Into Social Anxiety Disorder**
3104	LS	Carley Fratoni	**Stopping the stigma on obsessive comulsive disorder (OCD)**
3503	LST	Kassidy Stackpole Travis Nordgren	**The effect of different chain length fatty acids on a Drosophila model of human MTP deficiency**
3512	LST	Jeffrey Herbert Mike Sanon	**Clarifying Bipolar Disorder and the Stigmas Pertaining to it**
3515	LST	Rebekah Smith Autumn Stimson	**Post-Traumatic Stress Disorder**
3517	LST	Courtney Michaud Jaeden Spitale Kyle Tempesta	**The effect of probiotic yeast on a fruit fly model of human MTP deficiency**
3521	LST	Lisa Garcia Hannah Holloway	**Stomping the Stigma of Schizophrenia**
3525	LST	Brianna Dziekan Athena Missios Gianpierre Roche	**Effect of Fatty acid oxidation upregulators on a fruit fly model of human MTP deficiency.**
3529	LST	Ryan Stollman Christopher Papotto	**Effect of short chain fatty acid (SCFA) producing probiotic microorganisms on the phenotype of a D. melanogaster model of human MTP deficiency**
Orange		**Amity Reg Middle School, Orange**	
4035	PT	Baasim Zafar Raymond Lu	**A Salty Solution for Clean Energy**
5504	P8	Henry Westgard	**Non-Newtonian Fluid Headgear to Prevent or Reduce Concussions**
5527	P8	Shahood Khan	**Designing a Cost-Efficient Energy Solution Utilizing Solar and Wind Energy for Small Scale Use**
5535	P8	Yohav Vinnikov	**Integrity of Structural Members Based on Shape**
5554	P8	Cooper Blanchette	**Which Material Melts Snow the Quickest**
5563	P8	Jody Liu	**Green alternatives for pesticides**
Oxford		**Great Oak Middle School**	
2060	L7	Isabelle Lim	**The Plant Problem: What Liquid Helps Plants Grow the Tallest?**
Pawcatuck		**St. Michael School**	
2016	L7	Thomas McBride	**Family Finger**
2061	L7	Mary Malloy	**Which Has A Greater Bacteria Activity: Refrigerated or Non-refrigerated Probiotics?**
2501	L8	Sean Peglow	**What is the most effective over the counter (OTC) antacid when it comes to neutralizing the pH level of stomach acid?**
5003	P7	Jaden Kutz	**Temperature of Different Color Clothing**

Proj#/Category		Students/Project Title	
Plantsville		**J.F. Kennedy Middle School**	
1013	**LT**	Kailey Keegan Dylan Sandow	**Growing Algae**
2015	**L7**	Pio Castellano	**How Will Vitamins Impact Plants?**
2043	**L7**	Madeleine Silano	**Hydroponic vs Soil**
2051	**L7**	Margaret Coyle	**Got Milk**
2513	**L8**	Matthew Maciejewski	**Less is More: A test of minimal amount of water to grow a crop**
2546	**L8**	Avery Cowen	**Seed Germination in Different Mediums**
4019	**PT**	Mischelle Beerbaum Kiara Hourigan	**Bridge Design**
5041	**P7**	Walter Goodenough	**The Filament Factor**
Redding		**CT STEM FAIR**	
3071	**LS**	Neha Sudhir	**The Effect of Color on the Perception of Saltiness**
3093	**LS**	Quinn Burke	**The Effect of Protective Material Type on Concussion Prevention**
3115	**LS**	Haya Jarad	**Identifying Quasi-Periodic Patterns in Functional MRI Data**
6014	**PS**	Katherine Handler	**Succession Variations in Kenyan Scavenger Communities and the Importance of Wildebeest Carcasses**
6064	**PS**	Ryan Oleynik	**Aggregation of Phospholipid Based Vesicle Using Triblock Polymer**
6078	**PS**	Jacob Silliman	**The Fabrication and Characterization of Carbon Nanotubes Using Different Transition Metal Nanoparticles**
Redding		**Joel Barlow High School**	
3009	**LS**	Bryan Coppinger	**The Metabolic Rate of Camponotus pennsylvanicus in Comparison to an Increase in Atmospheric Carbon Dioxide Concentration**
3014	**LS**	Katelyn Sun	**Soil Respiration and Project GRACE Groundwater Anomalies**
3037	**LS**	Christopher Kaczegowicz	**Expansion of the Agrilus Planipennis (Emerald Ash Borer) in Northwestern Connecticut Decreasing the Population of Fraxinus Americana (White Ash)**
3046	**LS**	Gabrielle Colangelo	**The Anomaly of Temperature and Relative Humidity on Ixodes scapularis Subsistence and the Incidence of Borrelia burgdorferi- Caused Maladies**
3058	**LS**	Tim Tamallanca	**Anomalies Between the Change in Temperature and the Growth of the Bacterium Erwinia Amylovora in the Macintosh Malus Pumila in the Northeast**
3062	**LS**	Ben Ruffing	**A Novel Comparison of Environmentally Friendly Organic Acids Against Expensive Toxic Herbicides on Raising the Soil pH to Eliminate Invasive Japanese barberry (Berberis thunbergii)**
3077	**LS**	Jessica Lam	**CO2 Concentration and Intensification of Gr22 Protein Expression in Anopheles Gambiae Mosquitoes**
3090	**LS**	Tatiana Naclerio	**The Rate of Calcification of Crassostrea Virginica as Calcium Carbonate Levels are Increased**
3103	**LS**	Libby Albanese	**Chemo-responsive behavior of the Cancer Irroratus when exposed to carbon dioxide induced ocean acidification**
3108	**LS**	Christian Marini	**A Novel Application of Biochar to Prevent Potential Evapotranspiration in Cotton Plants**
3113	**LS**	Sumudu Gunawardana	**A Novel Approach for Detection of Early Onset of Chronic Kidney Disease (CKD) in the Rural Communities of Sri Lanka**
3507	**LST**	Ryan Weinstein Cristina Kontogiannis	**A Novel Study on the Effect of Increased Temperature on Carbon Dioxide Fixation of Crassulacean Acid Metabolism Plants**
3520	**LST**	Kate Wegener Katherine Wright	**The Developmental Neuroscience of Rational Decision Making and Risk Taking in Childhood and Adolescence**
6036	**PS**	William Rief	**A Novel Approach to Sequester Hydrogen at High Densities Through the Use of Titanium-Doped Nanocrystalline Magnesium.**
6074	**PS**	Grant Worthington	**Novel Use of Carbonic Anhydrase for Sequestration of Soil Respiration**
6505	**PST**	Maxwell Matejka Branden Fernandes	**A Novel Procedural Method for the Preparation of Photovoltaic Perovskite Solar Cells**
6509	**PST**	Rahul Kiefer Jake Stark	**Corsair Transportation**

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Ridgefield		**Ridgefield High School**	
3035	**LS**	Eva Murphy	**Using embryonic chick forebrain neurons to visualize the localization of L1CAM protein mutations**
3080	**LS**	John Diorio	**Analyzing Vitiligo's Predisposing Factors with Genetic Programming**
3109	**LS**	Jennifer Schwartz	**The Induction of Apoptosis in Leukemia and Lymphoma Cell Lines by Small Molecule Inhibitors through Inhibition of Antiapoptotic Proteins**
Sandy Hook		**Newtown High School**	
6007	**PS**	William LeMay	**The Synthesis of Silica X-Aerogels Through the Subcritical Process**
6033	**PS**	Chloe Kasak	**Exoskeleton Apparatus For Osteogenesis Imperfecta**
6062	**PS**	Nathan Augenbraun	**The Potential of Microbial Fuel Cells**
6069	**PS**	Christian Thanasoulis	**Electronic Bumper Sticker for Consumer Use**
Shelton		**Shelton High School**	
3055	**LS**	William Simics	**The Effects of Sea Squirts on the Habitats of Native Species in Long Island Sound**
3122	**LS**	Marissa Peck	**Biodegradable Plastic Study to Prevent Oceanic Pollution**
3511	**LST**	Courtney Litts Lauren Pawlowski	**Clean the Seas: The Effects of Pollutants on Aquatic Life**
6018	**PS**	Allison Brown	**Is Connecticut's Water Quality Connected to its River Bank**
6032	**PS**	Joseph Niski	**A Programmable LEGO Robot Used To Autonomously Analyze and Efficiently Solve A Rubik's Cube**
6059	**PS**	Siddharth Jain	**The Efficiency of Various Airfoil Designs in a Wind Tunnel**
6081	**PS**	Jacob Zuklie	**How does pitch effect turbine efficency**
6519	**PST**	Christian Tallo Emma Vittori Jafar Vohra	**Going Potatoes! A Bio-Poylmer to Replace Plastic**
Shelton		**Shelton Intermediate School**	
1007	**LT**	Devan Wildman Sydney Leifer	**Colorful vs Black and White Powerpoints**
2042	**L7**	Sarah Hurlbert	**Garden Trouble**
2533	**L8**	Jessica Wurms	**Egg Substitutes in Baking**
Shelton		**St. Joseph School**	
2024	**L7**	Lauren Greenfield	**The Stroop Effect**
2521	**L8**	Emily Borges	**Re-Think What You Drink**
2549	**L8**	Jordan House	**Brain Games**
5018	**P7**	Adam Zaleski	**The Effect of Bridge Design on Weight Bearing Capacity**
Simsbury		**Westminster School**	
3053	**LS**	Teagan Stedman	**The Intracellular Motility Factors of Listeria Monocytogenes as a PLatform for Liposomal Drug Delivery in Cancer**
Southington		**J.A. DePaolo Middle School**	
1018	**LT**	Rebecca Nunn Alexis Izzo	**How Sweet Is It? Glucose Levels In Your Favorite Drinks**
1021	**LT**	Nebeeka Saha Brianna Harris	**Burning Calories**
2502	**L8**	Betul Agirman	**Heavy Metal Adsorption Capability Of Pumice**
4034	**PT**	Brianna Pearson Morgan Perschy	**Are Southington Ponds Safe? Or not Safe?**
5008	**P7**	Faith Kosior	**Battle of the Loops**
5515	**P8**	Chris Chaplinsky	**Can't Stand the Heat?**
5522	**P8**	Bryce Fournier	**How Bridge Design Impacts Weight Bearing Capacity**
5528	**P8**	Daniel Yu	**Investigation of surface areas on Solar Panels**

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Southington		**Southington Catholic School**	
5551	**P8**	Kelsi Blatchley	**Mirror Mirror How does a Kaleidoscope Work?**
5560	**P8**	Emma Sage Kief	**Rainbow Fire**
Stamford		**Beacon School**	
6077	**PS**	Thomas Cortellesi	**Providing a Design Suggesting the Viability of IHTP Thrusters for Commercial Use**
Stamford		**Bi-Cultural Day School**	
1001	**LT**	Zev Pinker Adin Fogel	**What is the most Efficient Amount of Fertilizer to use when Growing Mustard Seeds?**
1026	**LT**	Benjamin Marcus Gavi Genger	**Effects That a Microwave Has On Brine Shrimp Egg Hatching**
5034	**P7**	Lilah Steinberg	**Do plants grow faster with sugar water?**
Stratford		**St. Mark School**	
1004	**LT**	Ashlinn Derleth Christina diBenedetto	**Music and Memory Does Music have a Positive Impact on Alzheimer's Patients**
1019	**LT**	Natalie Sciallo Kelly DeRosa	**Sugar Uncovered**
2020	**L7**	Liam Millott	**Mud Power**
2053	**L7**	Jonathan Bushka	**Caffeine and Plant Growth**
5565	**P8**	Anna Nemergut	**paws to consider**
Suffield		**Suffield High School**	
3024	**LS**	Madison D'Ostuni	**An Application To Efficiently Take Notes For A Concussed Person**
3026	**LS**	Katherine Baker	**The Effects of Magnetic Fields on Plant Growth**
3064	**LS**	Caitlin Kirschbaum	**Measuring Reaction Times to Visual and Auditory Stimuli**
3505	**LST**	Jason Werenski Yash Mehta	**How the Sediment From Water Help to Affect Crop Yield of Pea Plants**
6013	**PS**	Thomas Taggart	**Magnetic Generator**
6025	**PS**	Zachariah Service	**FIAA: Food Ingredient Allergy Analyzer**
6070	**PS**	Matthew Rogers	**Assisting Impoverished Nations with an Affordable Ocean Wave Powered Reverse Osmosis Water Desalination and Generator System**
6082	**PS**	Lukas Baker	**Studying the Applications of Solar Wind Pressure through Construction of a Muon Detection Chamber**
6512	**PST**	Peter Connolly Tyler Zolciak	**Generating electricity using tire rotation and magnets**
6520	**PST**	Thomas Archambault Jack Archambault	**Combat G.P.S**
Suffield		**Suffield Middle School**	
2034	**L7**	Arielle Nelson	**The Effects of Late Week Fatigue on Women's Gymnastics Balance Beam Performance**
Tolland		**Stonewall Academy**	
6085	**PS**	Amelia Peck	**Designing an Airfoil Spinner to Improve the Efficiency of Horizontal Axis Wind Turbines**
Trumbull		**Christian Heritage School**	
2525	**L8**	Benjamin Wolf	**Will Seeds Be Affected by Space Exposure**
2535	**L8**	Hope Krekoska	**The Effect of Baby Food on Sucrose,Glucose, and Fructose**
5529	**P8**	Anda Liang	**Light Propagation**
5537	**P8**	Emily Struzik	**Which soda erodes tooth enamel faster?**
6001	**PS**	Chengwen Hu	**Efficient green energy: The design, fabrication and testing of a Helio-tracker sunflower style power generator for enhancing the efficiency of solar power generation**

Proj#/Category		Students/Project Title	
6030	PS	Matthew Wyskiel	**Improving Developer Efficiency by Determining the Fastest Scripting Language to Compile and Run**
6047	PS	Xuezheng Wu	**Self-regulated LED Dimming System for Reduction of Eyestrain and Energy Consuming**
6056	PS	Hannah Shipman	**Object Detection for Autonomous Drone Navigation**
Trumbull		**St. Joseph High School**	
3028	LS	Abigail Cloud	**The Affect of Bivalves on Environmental Systems**
6024	PS	Kara Cloud	**Quantification of Pollutants Produced by Combustion of Man-Made Versus Fossil Fuels**
Trumbull		**Trumbull High School**	
3023	LS	Julie Hyland	**Using Eco-friendly Acids to Accelerate the Decomposition of Polystyrene**
3057	LS	Miriam Marino	**The affect different foods have on short and long term memory.**
Wallingford		**Choate Rosemary Hall**	
3025	LS	Shin Young Kwon	**Orchids and Dandelions: Testing Differential Susceptibility in Children from Different Backgrounds**
6072	PS	Jonathan Wu	**Preventing Car Accidents With Ultraviolet Light and Sensors**
Waterford		**Waterford High School**	
3098	LS	Sophie Wang	**Novel Methods for Healthier Deep Frying by Limiting Oxidation of Cooking Oils**
Watertown		**The Taft School**	
3111	LS	Joo Sung Yi	**Development of New Filter for MRI Image Quality Improvement**
West Hartford		**Solomon Schechter Day School**	
2059	L7	Atara Harrari	**Difference in Osmotic Properties of Brown compared to White Eggs.**
West Hartford		**St. Brigid School**	
2007	L7	Keeshia Caguitla	**Plant Growth Using Different Kinds of Fluids**
West Hartford		**St. Timothy Middle School**	
2011	L7	Christopher Baldini	**Flour Power**
2515	L8	Benjamin Lee	**Is Tap Water Safe to Drink in Connecticut?**
5550	P8	Steven Liu	**Sustainable Wireless Powered House**
5566	P8	Matthew Walker	**Fuel Up The Electrolyte Challeng**
Weston		**Weston Middle School**	
5020	P7	Jade Dayton	**Natural Water Filters**
Westport		**Staples High School**	
3017	LS	Virginia Gerig	**The Effectiveness of biomass on the removal of Heavy Metals**
3051	LS	Paul Tricarico	**What the Capturing and Recapturing of Limulus polyphemus Reveal about their Ecological Patterns of Spawning and Migration**
3063	LS	Steven Xu	**Quantifying the Effect of Carbon Dioxide on the Growth of Chlorella Vulgaris**
6016	PS	Samuel Chinitz	**Finding the Optimal Conditions for Energy Recovery in an Electric Car**
6028	PS	Douglas Raigosa	**Critical Parameters for Investigating Orbital Stability for the Kozai Mechanism**
6502	PST	Xiaotian Zhang Arun Soni	**Synthesis, Characterization, and Application of Noble Metal and Noble Metal Alloy Nanoparticles to Proton Exchange Membrane Fuel Cells for Enhanced Catalytic Activity**
Wilton		**Middlebrook Middle School**	
2065	L7	Anika Bhagavatula	**Banana Peels: Second Life as a Water Purifier**
2512	L8	Megha Gupta	**Plants to Cool the Planet.**
5023	P7	Nina Ferrucci	**Building a Battery**
5556	P8	Vignesh Subramanian	**Building Fire-Resistant Homes**
Windsor		**Academy of Aerospace and**	
3018	LS	Dean Fazzino	**The Effects of Varying pH's of Acetic, Benzoic, and Lactic Acid on Escherichia Coli**

Proj#/Category		Students/Project Title	
3042	LS	Joshua Snyder	**An Electronic Neural Model of the Patellar Reflex Arc**
3050	LS	Sahar Amjad	**The Effect of pH Differences on the Regenerative Abilities of Saltwater Nematostella Vectensis via Boric Acid**
3061	LS	Christopher Loring	**The Effects of Saccharin and Aspartame on Bacillus Clausii.**
3067	LS	Leon Novak	**Improvements in Chemotherapy: The Implementation of HSP90 Inhibitors in the Suppression of Chemoresistance**
3073	LS	Nicholas Keegan	**An Investigation of Effect of Deicers on the Embryonic Development of Zebrafish**
3079	LS	Michael Kerr	**The Effects of Folate on The Development of Transgenic Cancerous Drosophila melanogaster lines**
3091	LS	Renz Rebeca	**An Investigation on the Effects of Ascorbic Acid and Rutin on the Regeneration Rates of Nematostella vectensis**
3096	LS	Deivydas Giedrimas	**The Antimicrobial Effects of Garlic Oil on Static Quorum Sensing-Dependent Pseudomonas Putida Biofilm**
3124	LS	Derin Yetil	**Effects of Varied Concentrations of Propolis and Saccharin on the Development of Zebrafish Embryos**
3501	LST	Mazien Agha Zeyneb Bilal	**The Effect of Regeneration on the cells of Nematostella using Propolis and Comfrey Leaves**
3508	LST	Theodore Reed Ketaki Pawar	**The Effects of the Active Constituents in Oregano and Oldenlandia diffusa on Lewis Cell Lung Cancer**
3516	LST	Karman Singh Rafat Quazi	**Effects of Freshwater Pollutants on Planarian Regeneration**
3526	LST	Paul Wilson Spencer Carbone	**The Effects of Oryzalin on Reproduction and Structure in Brassica rapa**
Windsor		**Greater Hartford Academy of Math &**	
3034	LS	Pooja Patel	**The Effects of Metformin Hydrochloride on Zebrafish Embryonic Development**
3102	LS	Jack Breton	**Effects of Cinnamon Powder and Oil on Escherichia Coli**
3116	LS	Bryan Tassavor	**The Effect of Prevalent Environmental Pollutants on the Regeneration Rate of N. vectensis**
3119	LS	Jason Vailionis	**Effects of Small Changes in pH on the Growth of Aliivibrio fischeri, and Potential Effects on Survival of Euprymna Scolopes.**
3504	LST	Kajal Shah Amber Rehman	**The Effects of Home Remedies on Staphylococcus aureus**
3513	LST	Aliyan Ahmed Nicholas Kerr Zarq Afzal	**Bacteriophage as an Instrument to Bioremediate Escherichia Coli (E. coli)**
3519	LST	Nickolina Doran Jacqueline Klepinger	**The Effects of Taraxacum on Mouse Lung Cancer Cells**
3523	LST	Sairam Anaparthi Nathan Friday	**The Effect of Silver Nanoparticles on Planarian Regeneration**
3528	LST	Sydney Wimberley Quincy McGee	**The Use of BSA on Collagen Based Hydrogels in the Regeneration of Lung Tissue**
Windsor		**Madina Academy**	
1027	LT	Ruqayyah Paine Rifa Hossain	**The Effect of Added Nutrients to Hydroponic-Grown Plants vs Soil-Grown Plants on Lactuca Sativa**
2508	L8	Ayesha Nazir	**The effect of Vitamin C, Calcium, and Magnesium on Raphinus Sativa.**
4028	PT	Ibrahim Moghul Yaman Zoghol Ahmad Mohammed	**Investigating novel methods of generating electricity by using a Fibonacci wind-turbine with piezoelectric generators versus a regular wind-turbine with piezoelectric-generators**
6510	PST	Maryam Moghul Alina Mohammed	**Designing and Constructing an Underwater Turbine with a Self-Functioning Water Desalination System Simulating the Conditons of the Long Island Sound**
Windsor		**St. Gabriel School**	
2025	L7	Paul Hijeck	**The Effect of Different Substances on Plant Growth**

Proj#/Category		Students/Project Title	
4010	PT	Benjamin Clark Alma Clark	**The Thermoelectric Trivet: A Device For Converting Waste Heat From Cooking Into DC Current**
4021	PT	Kennedy Tor Sean Glick	**What shapes your Chute?**
5030	P7	Jessica Akin	**Propensity of Density**
Windsor		**The Loomis Chaffee School**	
3097	LS	HyunWoo Lew	**investigating the cardiac effect of toxicity by microwaved plastic products using Daphnia magna.**
6046	PS	Trung Truong	**Lowering electricity consumption within the household through the use of a self-made Solar Air Regulator System**
Winsted		**The Gilbert School**	
6063	PS	Andrew Christensen	**Influence of Agricultural and Residential Pollutants on Water Quality**
Woodbridge		**Amity Regional High School**	
3003	LS	Agrani Dixit	**Polymorphism in Mertk associated with Multiple Sclerosis**
3020	LS	Ulada Dubovik	**Protein Markers on Peripheral Blood Mononuclear Cells of Non-Smokers, Current Smokers, and Former Smokers**
3041	LS	Emily Criscuolo	**Murine Antibody Responses to the Relapsing Fever Spirochete Borrelia miyamotoi**
3066	LS	Helen Liu	**Developing a Novel Progranulin-Derived Biologic for Gaucher disease**
3076	LS	Ananya Kachru	**Mapping the Relationship Between Reading Ability and Successfully Learning an Artificial Lexicon**
3112	LS	James He	**The Correlation of the Development of Children's Phonological Processing, Intelligence Quotient, and Reading Cognition**
3118	LS	Rohan Patel	**GABA Responses in Adult MCH Neurons**
3121	LS	Kevin Yanagisawa	**The Effect of Nicotine Concentration on Endothelial Cell Proliferation**
3506	LST	Haseeb Khan Barak Davidi	**The Effect of Oniscus asellus Activity and Associated Decomposition on Soil Composition and Plant Growth**
3510	LST	Yuqi Zhou Sebin Park	**The Effect of Multilingualism on Attentional Control Measured with Time Perception**
3514	LST	Yiran Zhang Eli Silvert	**Integration of Auditory and Visual Features of Speech Perception in Schizophrenia: A Neurophysiological Investigation of the McGurk Effect**
6040	PS	Howard Ding	**How Has the Safety of Fuel Tanks Increased? The Billion Dollar Question**
6071	PS	Jimmy Bi	**Probing Cognitive Abnormalities in Causal Reasoning in OCD**
6080	PS	Henry Molot	**The Effect of Air Pressure on the Distance of a Soccer Kick**
6501	PST	Vince Li David Wang	**Creating a Mobile School Navigation App**
6514	PST	Courtney Greifenberger Kelsey McCormack	**Incorporating Biomimicry into Airfoil Design**
6521	PST	Sarah Saxe Julia Nadelmann	**Designing a Benchtop Pump Using Ferrofluids and Electromagnets as an Actuating Mechanism**