

Date: 3/2/2014

# Projects

## 2014



# Connecticut Science & Engineering Fair

## Quinnipiac University

### March 11 - 15, 2014

Proj#/Category	Students/Project Title
<b>Avon Farmington Valley Academy Montessori</b>	
5047 P7	Scott Capazzoli Comparing Two Acoustic Guitars for Best Sound!
5552 P8	Meaghan Ging Which Pop-Singer Has the Best Voice?
<b>Avon Talcott Mountain Academy</b>	
2011 L7	Tasha Casey How Breathing Control Affects Singing
2015 L7	Varun Aggarwal A Structural Approach To Drug Resistance
2041 L7	Zachary Waskowicz 3D Printing of Amyloid Precursor Protein: The Gene Mutation that Causes Alzheimer's
2524 L8	Ryan Gorneault Electromagnetic Fields and Their Affects on Plants
2533 L8	Andrew Ouellette A Novel Method To Evaluate The Presence Of Genetically Modified Elements In Seeds.
5507 P8	Humza Zaidi The Efficiency and Durability of Piezoelectric Generators
<b>Bethany Amity Regional Middle School</b>	
1005 LT	Deepak Gupta Dean Pocwierz Robotic Companions
4014 PT	Elizabeth Frieden Sally Thach Printed Prosthetics
4026 PT	Sophie Baum Ananya Kachru WriteBot
4029 PT	Harrison Paek Kevin Zhao Dressing Our Energy
4033 PT	Edward Criscuolo Howard Ding Harnessing Human Movement for Clean Energy
5530 P8	Morgan Meehan Robots Evoking Creativity
5546 P8	Aya Neeman Desalination for a Nation
5560 P8	Ayaan Malik Solar Sweatshirt
<b>Bethel Bethel High School</b>	
3004 LS	Quinn Vissak Remember the Mind
3025 LS	Amanda Deming Gorgonian Coral: A Population Flourishing in a Deprived Environment
3050 LS	Danika Wagener Do zebra mussels colonize Lakes Lillinonah and Zoar from upstream?
3109 LS	Nicolas Cazzaniga The Effect of different aspects and types of light on Manduca Sexta
3157 LS	Olivia Wootton The Bigger, The Better
6019 PS	Emma Crouse Are you getting what you pay for at the gas station?
6024 PS	Nikki Shaner-Bradford Quality of Nighttime Photography Based on Light Sources
<b>Bethel St. Mary School</b>	
2043 L7	Angela Saidman Is Your Health Club Making You Sick?
2539 L8	Hannah Folan Goo-Be-Gone
4031 PT	Jacob Schultz Christian O'Hara Light Energy
5009 P7	Quinn Kuroski Wind Power vs. Solar Power
5052 P7	Rory Daly How much force will come from changing the polarity of two charged magnetic rocks and how far will they go away from each other?
5520 P8	Stephen DeMarco Battery Life
5533 P8	Tiffany Saviano Which calcium carbonate antacid will neutralize gastric acid more effectively?
5543 P8	Benjamin Fletcher Magnetic Linear Accelerator

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5548 P8	Joseph Suarez	Clean and Green is (Ph)un
5557 P8	Michael Meehan	Does the Shape of an Air Foil affect the lift of an Airplane?
<b>Bozrah</b>	<b>Fields Memorial School</b>	
5031 P7	Genevieve Buckridge	Mathematical Patterns Found in Selected Classical Compositions
5045 P7	Rebecca Ramthun	The Search for the Most Effective Ice Melt
5508 P8	Katie Provost	A Study of the Production, Impact Testing, and Degradation of Seaweed Based Bioplastics
5524 P8	Joseph Cirrito	Wind Turbines: The effects of different blades on a model wind turbine
5565 P8	Evan Windsor	Mathematical Analysis of the Rubik's Cube Using the Thistlethwaite Algorithm and Sets of Moves
<b>Branford</b>	<b>Connecticut Experiential Learning</b>	
2003 L7	Liam Roberts	Nutritional Value of Smoothies
4012 PT	Coleman Riegler Jakob Frick	Smog Filter Using An Electrostatic Field
5018 P7	Joshua Barrett	A System for Remembering Generic Items (ASRGI for short)
5053 P7	Nolan Nichols	An Easier Way For Water
5558 P8	Bryce Leckey	Make it Stronger
5566 P8	Luke Atkins	Magnetic Levitation Automotive Wind Rail
<b>Branford</b>	<b>St. Mary School</b>	
2016 L7	Cara Samson	Earthquakes
2517 L8	Margaret Pomroy	Color Changing Milk
5511 P8	Meredith McConnell	Phonebook Friction
<b>Brewster</b>	<b>Brewster High School</b>	
6004 PS	Paul O'Hanlon	Dermal Denticles in Roofing Material
6037 PS	Jeffrey Marano	Application of Shear Thickening Fluids in Orthos for Parkinson's Patients
6056 PS	Andrew Genussa	Determining Honey Adulteration with Raman Spectra
6097 PS	Michael Fitzgibbons	Application of Nano-fibril Structures in Fabrication of Lightweight Materials of High Tensile Toughness
<b>Brewster</b>	<b>H.H. Wells Middle School</b>	
2036 L7	Cameron Hart	The Affect of Food on an Orb Weaver Spider's Web Spinning
2531 L8	Asa Wong	The Effect of Vitamin A1, B1, B9, B12, C1 & Different Temperatures on the Regeneration of Planaria
5002 P7	Meagan Beal	The Affect of Certain Scents on Short-Term Memory
5532 P8	Braeden Hecht	The Effect of Different Barriers, Materials and Interferences on the Travel of Radio Waves from a Router to a Computer
<b>Bridgeport</b>	<b>Bassick High School</b>	
6021 PS	Travis Kollock	Volcanoes
6089 PS	Rami Kharbouch	The Development of a Recycled Tire and Marine Cyanobacteria Single Chamber Microbial Fuel Cell
<b>Bridgeport</b>	<b>Bridgeport Hope School</b>	
2522 L8	Sung Bok Bessell	Fruit Juice for Plants
4021 PT	Kayoung Choi Mia Lugay	Charge it up!!
4025 PT	Hanul Eom Minkyung Kim	Change an acoustic guitar into an electric guitar
<b>Bridgeport</b>	<b>Bridgeport Military Academy</b>	
6003 PS	Hannah Laffin	Spinning Coin

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6515 PST	Joseph Falco Jessie Abrams Nicky Alamo <b>The Catapult</b>
6519 PST	Jerick Concepcion John Martinez Nick Villazhanay <b>Neodymium Magnet vs Copper Pipe</b>
<b>Bridgeport</b>	<b>Bridgeport Regional Aquaculture</b>
3126 LS	Stratton Tolmie <b>Testing for antibiotic properties of the seaweeds <i>Saccharina latissima</i> and <i>Gracilaria trikvahiae</i> against <i>Vibrio fischeri</i></b>
6026 PS	William Tait <b>Bio-sensor drug carrier for insulin</b>
6029 PS	Joshua Kreitler <b>Determining Natural Pigment Category that Leads to the Highest Output of Current and Voltage on Dye-Sensitized Solar Cell</b>
6039 PS	Matthew Raymond <b>The Construction and Calculation of an Atmospheric Geothermal Airlift Pump Condenser</b>
6091 PS	Kelly DeMeo <b>Synthesis of Silver Nanoparticles using Plasma Arcing Atomizing Methods</b>
6110 PS	Lora Walsh <b>Determination and removal of 17-Beta Estradiol in Long Island Sound.</b>
<b>Bridgeport</b>	<b>Central High School</b>
3012 LS	Denica Creighton <b>Are You a Righty or a Lefty?</b>
6031 PS	Kirya Brown <b>Clear Reaction</b>
6057 PS	Thea Stephens <b>Baking-Soda Fizz</b>
<b>Bridgeport</b>	<b>Fairchild Wheeler Magnet High School</b>
3008 LS	Veronica Feibusch <b>Electrolyte challenge Orange Juice vs Energy Drinks</b>
3038 LS	Natalia Kembaren <b>What is the effect of water sources on plants?</b>
3118 LS	Maia Mneimne <b>The Effect of Light Exposure on the Light Emission of Bioluminescent Dinoflagellates</b>
3125 LS	Eve Marks <b>How Taurine Affects Hermit Crabs</b>
6025 PS	Colton Moore <b>Chitin: Nature's Plastic</b>
6036 PS	Anubhav Dhar <b>Pressure to the Future</b>
6071 PS	Graham Bonnell <b>Hydrogen Fuel Cells: How Changes in Temperature Affect Them</b>
6522 PST	Liam McNeece Cody Scanlan <b>Simulated Impact of Car Collisions</b>
<b>Bridgeport</b>	<b>Geraldine W. Johnson School</b>
5522 P8	Karim Alveranga <b>The Alternative Battery</b>
<b>Bridgeport</b>	<b>High Horizons Magnet School</b>
2535 L8	Rahnumar Rahman <b>BioGas: The Future to Alternative Energy</b>
5526 P8	Humberto Figueroa <b>A Lot of Power</b>
<b>Bridgeport</b>	<b>Interdistrict Discovery Magnet School</b>
2532 L8	Ava Fabian <b>The Effects of Bisphenol-A on anxiety, short-term memory, and sucrose preference in adolescent female rats.</b>
5020 P7	Maximilian Aquino <b>Crystal Clear</b>
<b>Bridgeport</b>	<b>Multicultural Magnet School</b>
2024 L7	Elizabeth Silva <b>Bittersweet</b>
2035 L7	Simone DiBella <b>Colorful Flowers</b>
5542 P8	Abram Goda <b>Watts Up?</b>
5550 P8	Sarah Hernandez <b>Electrostatic Generator</b>
<b>Bridgeport</b>	<b>Park City Prep Charter School</b>
2029 L7	David Pontes <b>Biodegradation: Are We Convinced</b>

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4013 PT	Joshua Goodrich Andrew Restrepo	Stirling Engine: The Future
4027 PT	Bryn Claybourne Dallanara Ramos	Rubber Bones
5012 P7	Jacob Tay	How the Strength Of Magnets Varies At Different Temperatures
5057 P7	Ja'hShawn Vanholten	Drag Effect On An Airplane
5503 P8	Darius Gordon	Which Antacid can Neutralize the Most Stomach Acid?
5523 P8	Douglas Mattos	What bridge design is strongest?
<b>Bridgeport</b>	<b>Read School</b>	
5022 P7	Miguel Torres	How to power a calculator out of change
<b>Bridgeport</b>	<b>Roosevelt Elementary School</b>	
5023 P7	Rebecca Vilsaint	Acids and Bases: The Rainbow Connection
<b>Bridgeport</b>	<b>Six to Six Interdistrict Magnet School</b>	
2028 L7	Xiomara Hernandez	Nature's Way of Cleaning Oil Spills in Fresh Water
5564 P8	Hyojune Jung	Foot-Operated Computer Mouse Prototype
<b>Bridgeport</b>	<b>Warren Harding High School</b>	
6001 PS	Dannel Hall	Burning Calories: How much energy is stored in different types of foods?
6070 PS	Luis Ortiz	The Effect of Fertilizer on Dissolved Oxygen Levels in Water.
<b>Canton</b>	<b>Canton Middle School</b>	
2545 L8	Marissa Schroeter	Thermohaline Circulation Shutdown
5518 P8	Thi Le	Do enzymes make a better detergent?
5561 P8	Gabriel Mesa	Graphene Enhanced Piezoelectric Generator for Environmental Energy Conservation
<b>Cheshire</b>	<b>St. Bridget School</b>	
5058 P7	Carolyn Marchak	Bio-Inspired Robot
5527 P8	Nelson Alino	Can Excercise Really Help Our Brains Work Better?
<b>Danbury</b>	<b>Danbury High School</b>	
3010 LS	Natalie Mathews	Does Music Attract Bacteria
3098 LS	Janine Kerr	Biological Control of the Invasive Eurasian Watermilfoil Using Aquatic Weevils
6022 PS	Irene Mathew	Development of wet lands and utilization of ground water without disturbing environment.
6107 PS	Ramagopal Karthikeyan	Reducing the Price of Solar Panels by Changing their Chemical Components
<b>Danbury</b>	<b>Immaculate High School</b>	
6051 PS	Martha Haddad	Effective Energy Storage Technology for Electric Power
<b>Danbury</b>	<b>St. Gregory the Great School</b>	
1004 LT	Kevin McCoy Dominick Curra Devin Trotta	Purification Possibilities
1011 LT	Kendra Dascano Abigail Allen	How Does Your Garden Grow?
1015 LT	Bart Flaherty Christina Tomaselli Royce Maxwell	Eliminating Bacteria
4002 PT	Alexander Iassogna Alejandro Velasquez Sean Daly	Worming Around

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4006 PT	Rodolph Antonios Anthony Dascano Heat it up
4017 PT	James Fahey Jake McNamara Nicholas Buonaiuto Meltdown
5013 P7	Ryan Niland Smokey Ice
5037 P7	Frank Chieffalo Fantastic Elastic
5545 P8	Nicholas Walker Kinetic Coaster
<b>Danbury</b>	<b>St. Joseph School</b>
1014 LT	Emily Grenier Makinsey Jarboe Wood vs. Nature
2026 L7	Daniel Villalona Survival of Single-Celled Water Organisms in Different Potable waters
2505 L8	Emma Connolly Why we need Digestive Enzymes for optimal health.
2519 L8	Amanda Attina Don't Eat Off That Counter! Which Brand of Disinfectant Wipe Kills the Most Bacteria Off a Kitchen Counter?
2529 L8	Jack Guiry Incandescent v. Fluorescent: Which Light is Most Effective for Growing Corn Plants.
2536 L8	Dominique Valentine Can I successfully pollinate radish flowers?
4003 PT	Stephen Fanning Mario DeNardis Using a Solar Oven to Purify Salt Water to Become Drinkable
5027 P7	Jared Hewitt Light Power!
5039 P7	Andrew Tureaud Does the Sun's Angle Affect the Output of a Solar Cell?
5054 P7	Ryan Henn Which produce generates the most electricity: lemon or potato?
<b>Darien</b>	<b>Darien High School</b>
3035 LS	Bettina Arkhurst Trocytosis between Toxoplasma and Host Cell Membrane during Invasion
3067 LS	Dorry Xun Zhao The Effect of ILV Clusters on the Aggregation Propensity of CRABP.
3073 LS	Austin McLaughlin The Effect of Attentional Demand on Functional Connectivity in the Parietal Lobe
3093 LS	Cameron Van de Graaf Immunogenicity and Efficacy of a Nanoparticle-based Lyme Disease Vaccine
3105 LS	Grace Brandon Expression of DesB and DesZ for the Creation of Cellulosic Biofuels
3111 LS	Isabel Sellhausen Neuroprotective Effect of Finofibrate in the MPTP Mouse Model of Parkinson's Disease
3141 LS	Emily Roney An Analysis of Experimental Stem Cell Differentiation Data
3145 LS	Nicole Gagne siRNA-loaded exosome-lipid nanoparticles for in vitro treatment of B16F10 cells
3151 LS	Matthew Coley Development of cytokine-based glioma therapies
6015 PS	Alex Sedlack Geant4 Monte Carlo Simulation in the Development of CMS Calorimetry
6061 PS	Kellyn Berrigan Coronal Mass Ejections: Determining the exponent of a power law that dictates how drag affects the path of a coronal mass ejection
<b>East Hartford</b>	<b>East Hartford High School</b>
3018 LS	Qayyoom Kasliwala Radish Seeds: Race To The Top
6102 PS	Roderick Samuda Supporting The Cause: The effect of balsa wood support on craft stick bridges
<b>Enfield</b>	<b>St. Martha School</b>
1007 LT	Amy Mistri Melissa Scanlon Rachel Lagasse Extracting DNA from Strawberries.
4007 PT	Ciara Logan Tabitha Hinkle Jillian Andelmen Styrofoam, Ceramic and Thermoses. Oh My!

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4015 PT	Shelby Arcouette Madison Langh Jasmine Yard <b>Crystallizing Fudge</b>
4019 PT	Joseph DeVito Aly Angell <b>Burning Candles</b>
<b>Fairfield</b>	<b>Fairfield College Preparatory School</b>
3070 LS	Jonathan Siveyer <b>How Bio-Fuels Compare to Gassoline</b>
3079 LS	Junlin Mo <b>The Effects of Sensory Deprivation on Neural Activity for the Psychological and Mental Treatment of various Mental Conditions</b>
3160 LS	Patrick Polley <b>Photosynthetic Production of an Infinite Oxygen Supply</b>
6018 PS	Kyle Foster <b>A New Spin on Generators</b>
6028 PS	Griffin Roth <b>Finding the Best Rust Remover</b>
6054 PS	Dylan Hawkes <b>Exploration into the Development of a Mathematical Solar Cell Model in order to Simulate Solar Energy Potential in the United States</b>
6079 PS	Nicholas Siveyer <b>An Inquiry Into The Use of Graphene as a Superconductor</b>
6505 PST	Gavin Granath Michael Lagrange <b>Feasibility of Electromagnetic Freight Systems</b>
<b>Fairfield</b>	<b>Fairfield Ludlowe High School</b>
3106 LS	Gabriel Bay <b>Biochar - what is it and how it can help improve the CO2 balance and increase crop yields</b>
<b>Fairfield</b>	<b>Fairfield Warde High School</b>
3507 LST	Sagar Gulati Gazal Gulati <b>Virtual screening and Evaluation of non-covalent Inhibitors for Class C <math>\beta</math>-lactamase from Enterobacter cloacae P99</b>
<b>Fairfield</b>	<b>Our Lady of the Assumption School</b>
2509 L8	Shaye DeLaurentis <b>Do Different Types of Music Affect the Growth of Vegetables; Spinach, Arugula and Radishes?</b>
2534 L8	Robert Karosy <b>Does Whey Protein Effect the Rate of Regeneration of Planaria?</b>
5501 P8	Diana Pires <b>Which type of grocery bag; plastic, paper, or recycled paper, biodegrades the fastest?</b>
5547 P8	Thomas Agonito <b>Which type of arm, robotic or human, would have 100% accuracy and precision when throwing a ball?</b>
<b>Fairfield</b>	<b>St. Thomas Aquinas School</b>
1019 LT	Maryjane Elwood Elizabeth Duggan <b>What deodorant works the best?</b>
2004 L7	Isabel Mezei <b>Now You See It, Now You Don't: Testing Your Peripheral Vision</b>
2010 L7	Conor Landry <b>Plant Growth</b>
4032 PT	Leo Redgate Declan O'Donnell Jack Crager <b>Book Friction</b>
<b>Falls Village</b>	<b>Lee H. Kellogg School</b>
2025 L7	Sean Caiati <b>Aquaponics Terracotta vs Water; Benefits of Grow Mediums</b>
<b>Farmington</b>	<b>Farmington High School</b>
3081 LS	Patrick Demkowicz <b>Rethinking Biological Modeling: An Online Tool That Enables Researchers, Educators, and Students to Build, Analyze, and Share Rule-Based Models of Varying Complexity</b>
<b>Fishers Island</b>	<b>Fishers Island School</b>
3011 LS	Olivia Backhaus <b>Bacteria à La Mode</b>
3076 LS	Sophia Streimer <b>iShrimp</b>
3080 LS	Aaron Kane <b>Investigating Bivalve Bioremediation in a Warming Climate</b>
3090 LS	Elizabeth McCarthy <b>Did You See That?</b>

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6047 PS	Hannah Peabody	Keep your hands on the handle
6077 PS	Shelby Luskur	The Power of Gatorade
6100 PS	Amber Ferguson	Power Gear
6120 PS	Grace Timmons	Do You C This Juice? How Levels of Vitamin C Deplete Over Time
<b>Forestville</b>	<b>St. Matthew School</b>	
2013 L7	Stefan Zwolinski	How Do You See It? The Effect of Age on Depth Perception
2027 L7	Alex Valley	One Bad Apple Can Spoil The Whole Bunch
2525 L8	James Rybczyk	Birds and Color
5536 P8	Abby Aldieri	Keep the Heat
<b>Glastonbury</b>	<b>Glastonbury High School</b>	
3023 LS	Ninad Vora	Hydro and Solar Based Hybrid System
3043 LS	Isha Walawalkar	Studying the role of neutrophils in preventing the dissemination of <i>Listeria monocytogenes</i> in the intestinal mucosa following oral infection
3094 LS	Kathryn Cavanna	Investigation of the Functional Oligomeric State of the Herpes Simplex Virus type 1 Alkaline Nuclease
3099 LS	Abbie Kelly	Use of Stem Cell Engineering to Test the Function of a Genetic Variant for PTSD
3124 LS	Tian Shen	SQSTM1/P62 Mutation of PDB
3130 LS	Nicholas Scalise	Primary Craniofacial Osteosarcoma's Represent a Malignant Transformation of Neural Crest-Derived Stem Cells
3140 LS	Matthew DelMastro	Examining training climate and Ironman race performance outcomes
6014 PS	Brittany Horton	Developing a Low-Cost Method of Manufacturing Heart Valves for Transcatheter Aortic Valve Replacement Surgery
6030 PS	Alison Dugas	Morphological features of intermediate-mass black holes
6053 PS	Rebecca Rudolph	Horton's Site Native Americans
6060 PS	Mohamed El-Dirany	Oxidative Desulfuration Of Dibenzothiophene Through The Use Of TiO <sub>2</sub> Coated OMS-2
6075 PS	Paul Han	On the Minimization of Rotor Losses in the Three Phase Induction Machine
6093 PS	Anubhuti Mathur	Synthesis and Characterization of EGCG-PLAGA Conjugates and Mixtures
<b>Glastonbury</b>	<b>Smith Middle School</b>	
5028 P7	Sana Desai	Weather Warrior
5535 P8	Niyati Hora	The Effect of Rainfall on Oxygen/ pH Levels in Bodies of Water
5539 P8	Abhishek Malani	Stock Strategies
5559 P8	Tushar Sondhi	The Effect of Lenses on a Solar Panel.
<b>Greens Farms</b>	<b>Greens Farms Academy</b>	
2005 L7	Ethan Parker	Processed vs. Unprocessed Foods and Their Effects on Gastric Health
2014 L7	Lila Wells	The Effects of Hand Sanitizers on Bacterial Growth and Resistance.
2017 L7	Alexandra Agnew	The Effectiveness of an All-Natural Sunscreen vs. Commercial Sunscreens
2520 L8	Owen Petno	The Effects of Antioxidants on cell regrowth and regeneration in <i>Lumbricus variegatus</i>
3044 LS	Ethan Petno	Differentially Expressed Genes in the Adipose Layer of Skin in Psoriatic Patients
3152 LS	Francesca Garofalo	Chemosensitization of high-grade serous ovarian carcinoma via calcium signaling
6009 PS	Roque Martin	Chemical and Microwave Pretreatment of Biomass to Optimize Reducing Sugar Yield for Cellulosic Ethanol Applications
6038 PS	Eric Dexheimer	Solar Water Disinfection Optimization Using Titanium Dioxide Coated Plastics
6049 PS	Arthur Doelp	Momentum Powered Magnetic Generator For Electric Car Applications And Free Energy And Perpetual Motion Research
6069 PS	Priya Gupta	Titanium based artificial bone materials
6073 PS	Andrew Holliday	Low Drag Automobile Design

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6113 PS	Carter Durno Enhancing Water Resistance Qualities of SrAl <sub>2</sub> O <sub>4</sub> :Eu <sup>2+</sup> , Dy <sup>3+</sup> Phosphors Using Barrier Coatings
<b>Greenwich</b>	<b>Brunswick School</b>
3003 LS	Christian Tanner Nodule Induction in Arabidopsis to Promote Symbiosis with Rhizobia
3016 LS	Sivan Sud Brilliant Bioplastic: A Comparative Analysis of Strength in Various Bioplastics
3022 LS	Christopher Peisch An investigation of the effects of high-fructose corn syrup on growth, phenotype, and protein production in <i>Caenorhabditis elegans</i> .
3032 LS	Kevin Pendo An investigation into enteric symbionts and their effects on the interaction between gliadin and anti-gliadin antibodies.
3088 LS	Cooper Robinson The Use of Bioluminescent Bacteria to Measure Persistent Levels of Water Pollution
3509 LST	Nick VanBelle Eric Ganshaw External Digestion of Cellulose Utilizing Enteric Symbionts from the Termite Gut
3519 LST	Alessandro Montinaro Franklin Stitzer An investigation of horizontal gene transfer by way of organelle capture: Arabidopsis to Rapa
6090 PS	Alessandro Mariani An investigation studying the effect of the pseudomonas bacteria in a salt H <sub>2</sub> O environment
6508 PST	Angus Fraser David Ruf Comparative Efficiencies of Magnetically Levitating Train Systems in and out of a Vacuum Chamber
6510 PST	Jamie MacFarlane Andreas Kern Converting Mechanical Energy from Cross-walk Traffic Using Piezoelectricity
6516 PST	Mahesh Raman Reed McMurchy The Effect of Temperature, pH, and Dissolved Oxygen on Halophilic Desalination
6520 PST	Ryan Callaghan Thomas Kern The Future of Armor: Inspired by the Dactyl Club of the Mantis Shrimp
<b>Greenwich</b>	<b>Central Middle School</b>
2526 L8	Mansi Dhond Investigation of the Antibacterial Properties of Various Ethanolic Plant Extracts
4023 PT	Noah Kim Wesley Heim Developing a Practical System for Loosely Coupled Inductive Power Transfer
<b>Greenwich</b>	<b>Convent of the Sacred Heart</b>
3031 LS	Abigail Smith Effect of hours of sleep per school night on subject-specific academic success in high school students
3055 LS	Katie Martinez The Effect of Carbon Dioxide Levels on Oxygen Production in the Diatom <i>Cyclotella meneghiniana</i>
3155 LS	Molly Carroll Does Age Affect the Severity and Frequency of Concussions in Female Soccer Players?
3501 LST	Sabrina Carrozzi Alexa Granser Grace McKenney Nice to Meat You: Using DNA Barcoding to Detect Mislabeling in the Meat Industry
3513 LST	Emily Sabia Claren Hesburgh Using DNA Barcoding to Detect the Potential Contamination of Herbal Products
3516 LST	Abbi Wilson Alexandra Bolanos Efficacy of Clobazam in Epilepsies Associated with Genetic Abnormalities
3521 LST	Kylinn Askew Emma Novick Truly Vegetarian? Using DNA Barcoding to Detect Possible Contamination of Vegetarian Products
6007 PS	Christina Paolicelli Using Verbal Commands to Play the Maze Game with NAO, Humanoid Robot
6012 PS	Jennifer Esposito Testing the Use of Carbon Nanotubes in Electrochemical Double Layered Super Capacitors
6058 PS	Sarah Banker A Study of the Removal of Pollutants by Rain Gardens, a Low-Impact Drainage System
6072 PS	Shannon Longworth The effect of <i>E. coli</i> location and availability on the rate of locomotion in <i>C. elegans</i>



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<b>Greenwich</b>	<b>Greenwich Academy</b>
1003 LT	Ashley Beeson Hannah Subramaniam Common energy drinks and how they effect the development of zebra fish embryo.
3504 LST	Clare Ryan Gayatri Nangia Creating a Living Filter to Lower Levels of Harmful Algae in Long Island Sound
3508 LST	Jadesola Ariyibi Morgan Sorbaro Anushya Makam Cloning, sequencing and analysis of potential amyloid beta precursor protein from Cnidarians
3517 LST	Natasha Recoder Julianna Song Hydroponics: Effect of varying Calcium concentration on number of flowers produced by Wisconsin Fast Plants grown in hydroponic media.
6010 PS	Madeleine Jansson 3D Printed Fractal Structures
6020 PS	Emma Morrison Comparing the energy generated from simulated rain drops on a piezoelectric surface to a hydro-electric turbine in a downspout, using the same volume of water
6082 PS	Clare Hanlon Modifications to electronic pet fence system to allow for safe return into boundaries
<b>Greenwich</b>	<b>Greenwich Catholic School</b>
2032 L7	Ryan Casey Restoring Scalzi Park to its Native Plant Population
4018 PT	Brendan Tuite Liam Nicholson Griffin Lewis The Power of Sound
<b>Greenwich</b>	<b>Greenwich High School</b>
3007 LS	Emma Goodman Synergistic Antimicrobial Activity of Manuka Honey and Silver Nitrate
3034 LS	Andrew Lim Bioengineering of Popular Peppers to Create a Disease-Resistant Hybrid with Prolonged Shelf Life, Increased Biomass, and Capsaicin Content
3040 LS	Sophie Bardos Investigation of the Inhibition of E. coli Biofilm Formation on Food-Contact Surfaces via a Brominated Furanone
3061 LS	Olivia Scharfman Effect of Citrus Paradisi Concentrated Oil and Specific Component d-Limonene on the Dietary Intake of Mus Musculus
3104 LS	Kenneth Dorian The Remediation of Heavy Metals from Wastewater Using an Aspergillus niger Activated Flow Filter
3107 LS	Spencer Pevsner The Creation of Recombinant Proteins through Liquid Syncytial Endosperm Found in Coconut Water
3115 LS	Kotaro Yamashiro Inhibitory effect of D-Psicose on Motility, Growth and Reproductive Maturity of L1 larvae of Caenorhabditis elegans
3163 LS	Alexandra Ng Use of a Pre-Chemotherapy/Radiotherapy Regimen of Glutamine and Probiotics to Prevent Oral Mucositis
6040 PS	Peter Russell Design of a Novel Photo-Sensitized Carbon-based Supercapacitor for Capture and Storage of Solar Energy
6045 PS	Margaret Cirino Optimizing Hydrogen Production From a Piezo-electrochemical Water-Splitting Mechanism with Low-Cost Synthesis of ZnO and BiFeO3 Nanostructures
6074 PS	Ethan Novek Creation of Tidal Power from Infiltrating Coastal Ground Water via a Novel Tidal Barrage System
6078 PS	Andrew Ma Temperature-Induced Concurrent Removal and Recovery of Wastewater Ammonia-Nitrogen
6095 PS	Spencer Matonis Synthesis of a Block Co-polymer for the Manufacturing of a Bio-Degradable Monomeric Filament
6101 PS	Maxmillian Minichetti A Filamentous Organic Solar Cell Based Piezoelectric Architecture for Powering Commercial and Biological Electronic Devices
6105 PS	Cole Addonizio A Novel Application of Piezoelectricity and Impressed Current Cathodic Protection for Corrosion Prevention
6116 PS	William Anderson Inclusion of Thermoelectric Generators in Glass Building Materials to Produce Useful Energy in New England Homes
<b>Groton</b>	<b>Sacred Heart School</b>
2009 L7	Jonathan Foster Don't Drink That

Proj#/Category	Students/Project Title	
5014 P7	Mary Balagna	What Floats Your Boat?
5024 P7	Joshua Terry	Josh's Bridge is Falling Down
5035 P7	Grace Murphy	A Practical Use For Bubbles
5042 P7	Guinnevere Elenteny McQuown	Does Baking Sheet Material Affect the Outcome of Cookies?
5050 P7	Elizabeth Fountaine	The Effects of Temperature on Chemical Reactions
5055 P7	Alex Grandolfi	Light Bulbs Which type is brighter?
5506 P8	Trinity Rashan	Nuts & Beans About Energy
5525 P8	Alexander Hoth	The Effects of a Gear Size on Speed
5541 P8	Danielle Millerick	Soap Mixtures and their Bubbles
<b>Guilford</b>	<b>E.C. Adams Middle School</b>	
2008 L7	Erik Mastalerz	The Mummification of Apples
2039 L7	Robert May	The Effect of Excessive Nutrients on the Growth of Phytoplankton
4011 PT	Mark McNamara Hugh Medvecky Bailey Meyers	Stealth Shapes
5026 P7	Sammy Hao	Turn Milk Into Plastic
5046 P7	Oscar Scott	The Effects of Salt Concentrations and Voltages on the Electrolysis Process
<b>Hamden</b>	<b>Hamden Hall Country Day School</b>	
3047 LS	Jing-Jing Wang	The Effect of a Common Contaminant on the Percentage of Raphanus sativus (Radish) Seeds Germinated
3085 LS	Akhil Trehan	The Detection of Photo-oxidation of Guanine in Oligonucleotides Exposed to visible Radiation from Seasonal Affective Disorder Photo-therapy Lights.
6094 PS	Michael Crockett	The Effect of Nanoparticles on UVA-Induced Psoralen Photoadducts and their Rapid Detection by Matrix-assisted Laser Desorption/Ionization Time-of-Flight Mass Spectrometry (MALDI-TOF MS)
<b>Hamden</b>	<b>Hamden High School</b>	
3014 LS	Aakshi Agarwal	ACVR1/ALK2 Inhibitors as a Cure for Fibrodysplasia Ossificans Progressiva (FOP)
3060 LS	Justin Thomas	Analysis of Megakaryopoiesis via the Rho/SRF and ROS/Erk Pathways
3075 LS	Kayla Johnson	The Biofixation of CO <sub>2</sub> and Greenhouse Gases Using Coccolithophorid Algae as a Natural Remedy to the Greenhouse Effect
3082 LS	Ank Agarwal	Primary Cilia Vesicle Secretion and Resorption Facilitate Cell Communication
6106 PS	Francesca Kleine	Uncovering Hidden Masterpieces
<b>Hamden</b>	<b>Hamden Middle School</b>	
1009 LT	Zoe Eklund Johanna Angele-Kuehn	Plants: CO <sub>2</sub> Good For You?
2037 L7	Akshar Agarwal	E-Cigarettes: A New Health Frontier
2511 L8	Boaz Kaffman	It's Raining, It's Pouring, and pH Levels Across Hamden Need Exploring
2527 L8	Jack Gethings	Your Head, Your Helmet
2538 L8	Emily Cunningham	Oil or Water Based?
4005 PT	Miranda Holland Isabella Canas	pH from Scratch
<b>Hamden</b>	<b>Sacred Heart Academy</b>	
3017 LS	Caroline Berberian	Escherichia Coli's Resistance to a Household Cleaner Through the Zone of Inhibition
3041 LS	Elizabeth Smith	Exothermic Reactions: Can They Be Used to Make More Efficient/Environmentally Safe Deicers?
3058 LS	Alexzandrea Buscarello	The Effects of PTHrP on Mammary Epithelial Cells
3077 LS	Jennifer Piciw	The Effect of pH on Nutrient Absorption

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3097 LS	Jeanne Marie Cassidy The Hydrolyzing Games Hydrochloric Acid vs. Beta-Glucosidase
3132 LS	Jordan Earl Carcinogens in Oil
3137 LS	Elizabeth LoPreiato Investgating the Phytoremediation of Lead: The Type of Plant Species Versus the Rate of Lead Extraction in Hydroponic Media
3146 LS	Mitali Bandyopadhyay Skin Deep: A Biochemical Analysis of Grape Pigments
3161 LS	Anjali Vasavada The Role of Cx43 in Vascularization
<b>Hartford</b>	<b>Academy of Aerospace and</b>
3056 LS	Jotty Estrella Will Lycopene Affect the Growth Rate of Breast Cancer Cells?
3066 LS	Javier Diez The Effects of Herbicides on Nematostella vectensis Development and Regeneration
3131 LS	Nana Kyem The Effects of Leucine on the Zebrafish Embryonic Development
<b>Hartford</b>	<b>Capital Preparatory Magnet School</b>
2523 L8	Sophie Lee Does a Magnetic Field Affect Plant Cells?
<b>Hartford</b>	<b>Environmental Sciences Magnet at</b>
2006 L7	Nathan Colon Plant extermination projects
2022 L7	Hunter Rego Effect of Quantum on Plants
2501 L8	Ben Valigorsky Algae-Gro!
2506 L8	Ronan Levy Too Nutritious?
2513 L8	Victor Wilson Wood Fire Frenzy
2530 L8	Serena Seepersaud Effect of Quantum on Plant Growth
2541 L8	Taylor Marchand Climate Change vs. Mussels: Unfiltered!
<b>Hartford</b>	<b>Greater Hartford Academy of Math &amp;</b>
3020 LS	Saloni Shah The Effect of Flavonoids on Apoptosis, Proliferation, and the inhibition of Nuclear Factor Kappa B of Mouse Breast Cancer Cells
3027 LS	Aasim Shaikh Effects of Wi-Fi Signal Radiation on the Development of Brassica rapa (Wisconsin Fast Plants)
3039 LS	Sharon Huang Effects of Estrogen on Nematostella vectensis Regeneration Abilities
3053 LS	John Gilleran The Effects of L-Carnosine on the Lifespan of the nematode Caenorhabditis Elegans
3062 LS	Genesis Torres An Investigation of the Effects of Cytidine Diphosphate Choline on Parkinson's like Caenorhabditis elegans
3103 LS	Molee Desai The Effects of Ethanol on Zebrafish Embryonic Development
3112 LS	Anees Rehman Effects of Natural Antimicrobials on Escherichia Coli Growth
3120 LS	Kathryn Palinkos The Effects of Active Ingredients in Energy Drinks on the Development of Zebrafish Embryos
3128 LS	Ryan Englander Effects of Epigallocatechin Gallate on Breast Cancer Growth Rates
3138 LS	Jessica Fernandes The Effects of Diethyl Phthalate on Embryonic Development in Zebrafish
3143 LS	Ella Ackerman Investigation of the Effects of Compounds in Curcumin, Fruits, Berries, and Garlic on Breast Cancer Cell Survival and Growth
3158 LS	Deniz Yetil The Effect of Common Industrial Food Additives on Zebrafish Embryo Development
<b>Hartford</b>	<b>Hartford Magnet Trinity College</b>
3049 LS	Sameeha Shaikh Studying the Effect of Light Color on the Rate of Photosynthesis in Aquatic Plants
<b>Hartford</b>	<b>High School Inc.</b>
3503 LST	Amberleigh Delgado Brianna Shaw Ashley Brivette The Effect of Health Education on Teen Pregnancy
3506 LST	Jada Stokes Amanda Stewart Marcia Campbell Incarceration rates based on the law of one ounce of marijuana in colorado and washington

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6046 PS	Manuel Garcia Movie Music
<b>Hartford</b>	<b>SS. Cyril and Methodius School</b>
2040 L7	Keily Murillo Greenhouse Gases and the Effect on the Ozone Layer.
5502 P8	Yucel Santiago Ping Pong and Wiffle Ball Catapult
<b>Hartford</b>	<b>Two Rivers Magnet High School</b>
3505 LST	Kaitie King Ardale Forrester Energy Efficiency
6002 PS	Devon Dugentas Resistance and Temperature of Wires
6080 PS	Mallika Balgobin Great Globbs of Gluten
6119 PS	Bishop Bryan Earth Energy
6123 PS	Lariab Afzaal The Car of the Future: The Effect of Two Energy Power Sources Charged by Solar Panels on the Mileage and Speed of an RC Car.
<b>Hebron</b>	<b>RHAM High School</b>
6111 PS	Kayleigh Sauyet How the Type of Footing Effects the Impact of Livestock on Soil Erosion
6518 PST	Paisley Kostick Sophia Arruda The Effect of Extreme Cold Temperatures on the Strength of Adhesive Bonds
<b>Hebron</b>	<b>RHAM Middle School</b>
2543 L8	Gabrielle Benson-Clarke Should the Flu Vaccination Program be modified to emphasize vaccination of the young and less emphasis on the elderly?
<b>Kensington</b>	<b>St. Paul School</b>
2033 L7	Serena Esposito Radiant Radish
5025 P7	Patrick Kennedy Viscosity vs. Surface Tension
5555 P8	Joshua Rigsby Measuring the Speed of Light through Gelatin using a Laser Pointer The Angles of the Laser vs the Speed of Light
<b>Madison</b>	<b>Daniel Hand High School</b>
3002 LS	Shayan Roychoudhury DNA sequence motifs as biomarkers for genomic disorders.
6064 PS	Ankita Roychoudhury Examining Graphene Nanoparticles for CO2 capture and water purification.
<b>Madison</b>	<b>Our Lady of Mercy School</b>
2019 L7	Claire Vissers Feed The Birds
2042 L7	Maria Lynders What Substance Attracts The Most Fruit Flies
2510 L8	Margaret King Words, Words, Colors, Words
5521 P8	Cole Simons Bio Battery: The Wise Alternative for Future Renewable Energy
<b>Manchester</b>	<b>East Catholic High School</b>
3087 LS	Bridget Oei Investigating the Efficacy of Bioluminescent Mushroom Panellus Stipticus as a Biosensor to Detect the Toxicity of Water Contaminants
<b>Manchester</b>	<b>Manchester High School</b>
3064 LS	Humza Ali The Effect of Anti-TGF Beta and Light Endurance Training on Muscle Regeneration in elderly Female Mice
3068 LS	Megan Boyer The Kinematics of Barefoot and Shod Running
6005 PS	Chelsey Tinson An Aerodynamic Investigation of a Six Panel Circularly Grooved Golf Ball
<b>Manchester</b>	<b>St. Bridget School</b>
2504 L8	Evgeniy Medvedev Analyzing Soil Components
2508 L8	Benjamin Morris-Woods How Does Global Warming Affect the Root-to-Shoot Ratio of Plant Growth?
<b>Middletown</b>	<b>Middletown High School</b>
3037 LS	Terry Nguyen Review: Systemus Lupus Erythematosus: Updated Treatments and the MYD88 Pathway

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<b>Milford St. Gabriel School</b>	
2001 L7	Alexandra Leparik Effects of Irradiation on Seeds
2031 L7	Brian LoCicero Green Growing Alternatives
2514 L8	Michael LoCicero The Microwave Mistake
5048 P7	Aidan Conway Sergeant Powder
5513 P8	Hannah Williams How much salt is in water?
5531 P8	Kyle Shugrue Comparing Reactions
<b>New Britain Pope John Paul II School</b>	
5021 P7	Kelly Iskra Crystals
5556 P8	Kamila Krawczuk Drawing Robot
<b>New Britain Sacred Heart School</b>	
5512 P8	Victoria Piechota Alleviating Minor Household Flooding Situations
5529 P8	Kateryna Yurkevych How long does it take devices to charge when the power goes out?
5534 P8	Kathryn Smith Do Water-Filtering Bottles Really Work?
<b>New Haven Betsy Ross Arts Magnet School</b>	
2516 L8	Gabrielle Christofor Planting With Compost
2544 L8	Wayde Whichard Can the color of your house effect your energy bill
5006 P7	Poorna Balakumar Parabolic Trajectory Analysis of Projectiles Using Catapults
5036 P7	Cara Peccerillo Whatever Floats Your Boat!
<b>New Haven Cooperative Arts and Humanities High</b>	
3071 LS	Ade Ben-Salahuddin Shedding Light on Cyanobacterial Population Growth and Regeneration
6503 PST	Mairead Brennan Melba Flores Battling Subjectivity - Finding Tools For Nano-Scale Measurement
<b>New Haven Engineering &amp; Science University</b>	
3084 LS	Lauren Low The Affect of Pseudomonas putida on the Biodegradation of Plastics
5016 P7	Jacob Feuerstein Contrasting Types of Doctor's Offices Using Amount of Virulent Bacteria
5041 P7	Prastik Mohanraj Using Wettability to Develop Reusable Freezer Bags
6032 PS	Shyam Patel 3 Little Pigs
<b>New Haven Hill Regional Career High School</b>	
3013 LS	Vishal Patel Enzyme/Substrate Concentrations and the Rate of Enzyme-Catalyzed Reactions
3510 LST	Dhaval Patel Cindy Torres Synergistic affect of combinations of antibiotic vs E.coli.
3515 LST	Sylwia Zambrzycka Meeshali Patel Saving the World from Brain Eating Amoebas
6511 PST	Yara Hosny Afnan Hassan Belal Shelf Life of Milk.
<b>New Haven St. Aedan-St. Brendan School</b>	
2515 L8	Jacob Spell Can You Beat The Heat: The Denaturing of Proteins
5019 P7	Phylese Davis Fizz, Fizz!
5043 P7	Ronald Thomas Evaporation Situation
5544 P8	Darrell Draughn Supercooling Water and Snap Freezing.
<b>New Haven Worthington Hooker Middle School</b>	
1002 LT	Carlin Eswarakumar Sheila Hutchings Antacid Potency

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1018 LT	George Wang Jake Wang	Which substances will produce the most energy?
1021 LT	Rachel Kwall Sophie Edelstein	Plants on Other Planets: The Effects of Gravity and Atmosphere
5515 P8	Maya Geradi	Removal and Recycling of Phosphate from Water using Various Methods: A Sustainability Project
<b>New London</b>	<b>Science &amp; Technology Magnet High</b>	
3129 LS	Bianca Timpano	The Affects of Temperature on the Filtration Rate of <i>Mercenaria mercenaria</i>
3148 LS	Aidan Hurley	Effects of Disposed Medications on Water Chemistry
<b>New Milford</b>	<b>New Milford High School</b>	
3006 LS	Christine Habjan	Bacterial Resistance to Vancomycin and Ampicillin
3065 LS	Sylvia Onorato	A Comparative Study of Pathogenic Bacterial Life in Public Buildings.
6098 PS	Austin Hengel	Effect of Accelerated Particles on the atoms of Copper and Gold
6117 PS	Carly KleinStern	The Oort Cloud: A Cometary Reservoir
<b>Newington</b>	<b>St. Mary School</b>	
5004 P7	Kate Morelli	Does The Size and Material of a Ball Affect How High It Bounces?
5017 P7	Joseph Tedeschi	Which Fruit Produces More Electricity?
5551 P8	Maeve Maltese	How Does Adding Water to A Bottle Rocket Affect Its Flight?
5567 P8	Anthony Tedeschi	Which Model Airplane Flies the Farthest?
<b>Newtown</b>	<b>Newtown Middle School</b>	
5514 P8	Emily Payne	The Effect of Greywater on the Growth of Plants
5528 P8	Danielle DePinto	Greenenergy
5537 P8	Cameron MacDonald	Burning Calories to Light up the Night
5549 P8	Angela Payne	The Effect of Different Rain Waters on the Growth of Radish Seeds
<b>Newtown</b>	<b>St. Rose of Lima School</b>	
2002 L7	Kristen Cirone	The Effect of Magnetism on Plant Growth
2012 L7	Chase Harper	The Effect of Nitrogen Fertilizer on Grass
2020 L7	Thomas Briscoe	The Absorbency of Different Types of Wood
5001 P7	Karl Kelly	The Effect of Different Antennae on the Reception of a Homemade Radio
5005 P7	Jake Tapanes	The Effects of Soot on the Melting of Glaciers
5011 P7	Catherine Herrick	The Investigation Of The Presence Of Plastic Microscopic Fibers In Effluent Sewage Water And The Long Island Sound
5032 P7	Jack McDermott	Measuring Electrolyte Conductance in Sports Drinks, Orange Juice and Tap Water as Compared to Distilled Water
5038 P7	Molly Villodas	The Amount of Carbohydrates in Different Brands of Non-Fat Powdered Milk
5049 P7	Aidan Moulder	The Effect of Putting Duct Tape on a Wiffle Ball Bat
5056 P7	Emilia McGuinness Getzinger	The Effect of Freezing and Thawing on Various Types of Rocks
<b>Norwalk</b>	<b>The Montessori Middle School</b>	
2021 L7	Elizabeth Byer	Green Energy, Green World
5034 P7	Matias Martinez	Local Air Pollution Variations
<b>Norwalk</b>	<b>West Rocks Middle School</b>	
4001 PT	Emma Guilbault Serena Jankovic	The Effect of Color Schemes and the Age and Gender of a Person on How Quickly the Person Can Read a Stroop Chart
<b>Norwich</b>	<b>Norwich Free Academy</b>	
6121 PS	Connor Provost	A Novel Approach to The Design of an Electroencephalogram-Based Brain-Computer Interface For Use In Thought to Text Translation

Proj#/Category	Students/Project Title
<b>Oakdale Leonard J. Tyl Middle School</b>	
1013 LT	Vivian Tang Drew Tonjes <b>The Effects of Substances on Candies</b>
<b>Orange Southern Connecticut Hebrew</b>	
1006 LT	Avraham Yaffe Yaacov Hecht <b>Analysis of different wood's resistance and how to prevent or delay the decay with natural sources.</b>
2507 L8	Ben Forti <b>Analysis of Phosphorus (Fertilizer) Recovery from Varied "Run-off" Sources (Local Rivers and L.I.S.)</b>
4009 PT	Breindel Piekarski Batya Koenigsberg <b>Effect of Sulfites as a Preservative on Cell Absorption and Nutrient Content.</b>
4020 PT	Miriam Kantor Chana Katz <b>Analysis of Prevention and delay of ignition and burn times of synthetic fingernails</b>
5517 P8	Jacob Hasbani <b>Analysis of natural sources of possible road de-icers and efect on pavement, soil, and plants.</b>
5519 P8	Fraydy Meltzer <b>Ananalysis of "Super Spices" Effect on Cell Absorption, Antioxidant Levels, and pH.</b>
<b>Oxford Oxford High School</b>	
3046 LS	Caroline Wolf <b>The Effect of Stress on Academic Performance</b>
3059 LS	Adriana Veltri <b>Testing how Levels of Mercury in Various Species of Fish when affected by Chlorella.</b>
3149 LS	Hannah VanBuiten <b>The Two A's: Animals and Autism</b>
3156 LS	Emma Plankey <b>Exploring Gender Bias Across Adolescence</b>
6006 PS	Clara McGee <b>Testing Methods Used to Calculate Stellar Evolutionary Stages in Star Clusters</b>
6013 PS	Brian Westgate <b>Development of a Sustainable Energy System that Converts Lightning to Hydrogen Gas through Plasma Electrolysis</b>
6016 PS	Logan Law <b>Tilt angles affect on a photovoltaic modules voltage output.</b>
6023 PS	Michaela Seales <b>Correlation of Hippocampal Neurogenesis and Exposure to Cosmic Ray Highly Ionizing Radiation (HZE) Particles</b>
6052 PS	Kevin King <b>Construction of a Mechanical Arm with Magnetic Claw</b>
6055 PS	Jessica Yetman <b>Chemically Testing Tattoo Ink using Raman Spectroscopy</b>
6062 PS	Zachary Frew <b>Atmospheric Water Generator From Alternative Energy Sources.</b>
6067 PS	Kevin Schumitz <b>The Development of a Multilayer Anechoic Tile Systems to Mitigate the Effect of Disbonds in the Hulls of Submersibles</b>
6084 PS	Charles Yetman <b>Mapping Tidal Current Farm Potential Along the Long Island Sound</b>
6108 PS	Aidan Fay <b>How do Cover Crops affect Soil pH</b>
6125 PS	Zachary Geffert <b>Investigating Alternative Methods Using Magnetism to Power a Four-Stroke Engine</b>
<b>Pawcatuck St. Michael School</b>	
2023 L7	Drew Babineau <b>Cleaning Your Toothbrush the Safe Way</b>
4004 PT	Brielle Fratoni-Jaskiewicz Ruby Costello <b>Not Just for Eating</b>
5010 P7	Megan Hill <b>The Best Media</b>
5044 P7	Grace Kane <b>Which Exterior Paint Will Protect Your Home?</b>
<b>Plantsville J.F. Kennedy Middle School</b>	
1016 LT	Ananya Karanam Jagvi Patel <b>Ready Set Grow</b>
2007 L7	Hannah Platt <b>Decreasing Sugar in Horse Treats</b>
2045 L7	Mary Bilodeau <b>Gluten - A Sticky Situation</b>
4028 PT	Amisha Paul Donna McNeill <b>Acid Rain: A Silent Killer</b>

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<b>Putnam</b>	<b>Putnam Science Academy</b>
3502 LST	Omer Tekin Abidin Emhan Taha Cangoz <b>Alternate Source of Paper from Melons</b>
3512 LST	Hacibey Catalbasoglu Burak Eraslan <b>Effect of Environmental Conditions on Hydrogen Production in Clostridium</b>
3520 LST	Cagri Aytekin Berk Suleyman Erkam Curuk <b>A Novel Approach to Removing Oil Spills from Seawater by using Sustainable and Cost-efficient Materials</b>
6502 PST	Ahmet Arslan Berkan Tuylu <b>Black Ice Road Sensors</b>
6506 PST	Almas Myrzatay Selman Avci <b>Building an Automated Prototype for the USAR Operations and Industrial Applications Using Lego Mindstorm, Tetrix and RobotC</b>
6509 PST	Ahmet Acar Amir Edris <b>Designing and Building a Scale Model of an Eco-friendly and Self-sustainable city</b>
<b>Redding</b>	<b>Joel Barlow High School</b>
3019 LS	Devon Grey <b>Calendula officinalis Naturopathic Treatments for Acne vulgaris Reduction affecting the Glandula sebacea and inhibit the excessive production of Sebum.</b>
3024 LS	Andrea McGowan <b>Efficiency of Chlorophyll A and B found in Spinacia Oleracea for Electrical Generation in a Photosynthetic Solar Cell</b>
3033 LS	Peter Gombos <b>The Effect of Sea Temperatures On Plankton and the Ocean</b>
3063 LS	Ryan Wendt <b>Dietary Habits as Related to Increasing Numbers of Nephrolithiasis (kidney stones)</b>
3078 LS	Emma Sanders <b>The Effect of Olive Oil Phenols on the Concentration of Yeast Bacteria in Food Preservation</b>
6017 PS	Alexandria Hayman <b>The Stability and Activity of the Biosynthetic and Synthetic Emulsifiers of Xanthan Gum, Propylene Glycol Alginate (PGA), and Tragacanth</b>
6027 PS	Julia Wargo <b>Obtaining Alternative Concentrations of Ferric Chloride for Higher Visibility while Etching Copper for use in Jewelry</b>
6035 PS	Jamie Curtis <b>Analyzing the Effect of De-icers on Connecticut River Water Quality</b>
6081 PS	Hunter Lightman <b>Solar Computing: Creating a cost-effective off-the-grid laptop for utilization in third world countries</b>
6112 PS	Lucas Kocka <b>Blowing in the Wind: Southwestern Connecticut's Potential for Wind Energy Production</b>
<b>Redding</b>	<b>Southern CT Invitational Sci &amp; Eng Fair</b>
3072 LS	Eeman Abbasi <b>Targeting Expression of Histamine 4 Receptors on Microglial Cells to Combat Compulsive Disorders</b>
3102 LS	Sarah Saxe <b>The Effect of Subliminal Messages on Food Selection</b>
3514 LST	Yiran Zhang Eli Silvert <b>Does Musical Training Affect Multi-Channel Sensory Integration?</b>
6008 PS	Haya Jarad <b>The Effect of Varying Ferrofluid Carrier Liquids on Oil Spill Remediation</b>
6059 PS	Noah Gallant <b>Construction of a Renewable Energy Generator from Recycled Materials: A Study on Windbelts</b>
<b>Ridgefield</b>	<b>Ridgefield High School</b>
3091 LS	Megan Johnson <b>Investigation of the BMP4 Culture Conditions Necessary to Produce Mesoderm-Lineage Cells from a Human Embryonic Stem Cell-Derived, Mesendoderm Intermediate</b>
3101 LS	Jin Joo Kim <b>The Effect of TiO2/Graphene Oxide on the Purification of Tris(2-Chloroethyl) Phosphate(TCEP) and CuSO4 (CS) Contaminated Water</b>
3110 LS	Michael Latorre <b>Determining an Optimal Multiplicity of Infection for Adenoviral Transduction of ViraDuctin Introduced 3T3 Fibroblast Cells</b>
3142 LS	Natasha Armbrust <b>Regulation and Browning Capabilities of FNDC4 in vivo</b>
6066 PS	Isabelle Goldstein <b>Partitioning gamma-ray sources in Fermi Large Area Telescope observations for spatial and spectral analysis</b>



Proj#/Category	Students/Project Title	
6088 PS	Isabelle Gordon	Graphene Film Conductivity with Single Strand Deoxyribonucleic Acid
6099 PS	Devin Gund	Inorganic Biology: Direction Control of Polyoxometalate-Based Tubular Microstructures
<b>Sandy Hook Newtown High School</b>		
6050 PS	Alisha Aggarwal	Gambling: Science or Luck? - Can gamblers alter their odds? An assessment to determine scientific principles and mathematical techniques used by gambling companies to ensure profits.
6065 PS	Peter Manfredonia	Computer Hand Input Mechanism
6076 PS	David Corsi	Practical Applications for 3D Printing Concrete Structures
<b>Shelton Shelton High School</b>		
3026 LS	Alexander Ercolani	Do Sugar Substitutes Allow Yeast to Perform Cellular Respiration
3042 LS	Veina Pillai	The Effect of the Bitter Gourd on Blood Sugar Levels
3116 LS	Kelly Sou	The Genetic Touch
3133 LS	Justin Dressler	Stress by the Angle
6043 PS	Rigel Mahmood	Development of a Simulation Model for the Solution of Einstein's General Relativity and Quantum Mechanics Based on Causal Dynamical Triangulation
6504 PST	Joseph Niski Ian Diaz	Blades of Fury Pt. 2: Weight Efficiency
6512 PST	Samantha Rubio Monica Holler Jared Peck	Gravimetric Analysis of Calcium and Hard Water
<b>Simsbury Simsbury High School</b>		
3001 LS	Stephanie Rosenberg	Can Smells Improve Your Mental Ability?
3015 LS	Mary Pyatt	Effect of Communal Bathrooms on Rates of Contagious Diseases
3030 LS	Annika Geno	Eye Color and Colorblindness
3048 LS	Brendan Cummings	Pine Resin Bioadhesive Medical Glue
3052 LS	Brigid Cazzetta	App Therapy
3057 LS	Alyson Saperstein	The Effect of Protein on Memory
3086 LS	Timothy Preskenis	How Sound Effects the Human Mind During Sleep?
3089 LS	Noah Champion	Is Reaction Time Dependent on Height
3096 LS	Merisa Cirikovic	The Effects of Moderate Altitude on Type 1 Diabetes
3119 LS	Sarah Kate Stuart	Birth Order and Attention Span
3136 LS	Eduardo Rosadio	The Effects of Road Salt & Gasoline on Amylase Function
6041 PS	Rachel Baumann	The Effects of Pressure, Temperature, and Cooling Rate on Tensile Strength of Extruded High Density Polyethylene
6044 PS	Kelly Gorham	Glucose Meter Shoe
6068 PS	Kevin Nguyen	UV Curing
<b>Southington J.A. DePaolo Middle School</b>		
1008 LT	Evan Bender Michael Dorsey	The Effects of De-icers on Grass Growth
4010 PT	Ashley Shafran Erin Palinkos	The Effects of a Robot's Speed in Mazes with Different Amounts of Turns
5033 P7	Lidia Prusak	Oxidation in Apples
5504 P8	Lydia Yu	Pitch Not Perfect
<b>Southington St. Thomas School</b>		
5516 P8	Anthony Shea	Burn Those Calories
5538 P8	Noah DeFeo	Temperature Check of the Sea

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<b>Sprague Sayles School</b>	
2521 L8	George Sechen III Can action related video games trigger an adrenaline response as measured by changes in heart rate or blood pressure?
2537 L8	Jaeden Spitale Which liquid (tea, coffee, water, milk, apple juice, Cola) dissolves teeth the most?
2542 L8	Constance Odom Do plants grow best with sugar water, tap water, or salt water?
<b>Stamford Bi-Cultural Day School</b>	
2030 L7	Ethan Essensfeld Breaking Down Teeth
4016 PT	Nathan Links Dean Bilenker Joshua Labkoff Color, Heat, and Light Absorption
5051 P7	Samuel Essensfeld Putting a Spin on Billiards
<b>Stamford Rippowam Middle School</b>	
5563 P8	Kiran Jagtiani Hypoallergenic Lawn Care Device
<b>Storrs E.O. Smith High School</b>	
3028 LS	Joyce Zhou Effect of Light Levels on the Growth of Coral
3117 LS	Laura Blum Development and Verification of Primers for the Cytochrome Oxidase Gene in Cnidarians
<b>Stratford St. Mark School</b>	
2044 L7	Kristen Robertson Growing Our Future: Using LED Hydroponics to Cultivate Fresh Produce: A Solution for Urban Food Deserts
2503 L8	Skylar Shandrowski N.D. Naturopathic doctors and Alternative healthcare vs. M.D. Medical doctors and Conventional healthcare
2518 L8	Daniel Vetter Optical Illusions
5007 P7	Kenneth Sholomicky Cool, Cool Chlorides...A comparison of ice melting chlorides as deicers and their effectiveness as an anti-freeze
5553 P8	Michaela Luk Invisible Technology.
<b>Suffield Suffield High School</b>	
3074 LS	Kyle Zielinski Exploration of how Perjeta could help treat cancer
6083 PS	Lukas Baker The application of magnetic levitation technology on elevator construction
6096 PS	Matthew Rogers New Invention to Efficiently Harness Wave Power
6126 PS	Ronnie Augeri LCD Projector Built From Commonly Found Electronics On A Budget
6501 PST	Erin McGann Martha Beringer Changing the shape of blades on wind turbines
6507 PST	Paul Grimard Anthony DeVita Using a photovoltaic cell to self-sustain a clean water pump
6514 PST	Katherine Baker Caitlin Kirschbaum Recycled Plastic Bag Insulation
6517 PST	Brent Heineman Chris Ellithorpe Harvesting the Resources of Space
<b>Tolland Stonewall Academy</b>	
3051 LS	Amelia Peck Analyzing Bacterial Resistance to Antibiotics
<b>Trumbull Christian Heritage School</b>	
2502 L8	Caileigh Treash The effect of processing on vitamin C content in fruitjuices as measured by iodometric titration
5510 P8	Cristian Piraneque Viscosity and Melting Profile of Dairy and Non-Dairy Ice-Cream and the Development of Appealing Ice-Cream for Lactose Intolerant Individuals.
5554 P8	Judah Immanuel Fabrication and testing of the power output of a solid state tesla coil.
6087 PS	Patrick Chaverri Building a Magnetically Levitated Elevator that can Raise and Lower Objects to Various Heights

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6103 PS	Michael Lord Voltage Output of Homemade Nano-Crystalline Dye-Sensitized Solar Cells in Series
6122 PS	Jejun Youn Building a Maglev train using electromagnet
<b>Wallingford</b>	<b>Choate Rosemary Hall</b>
3009 LS	Michelle Wu Electrospun Poly(lactic-co-glycolic acid) Scaffolds Slow Raw 264.7 Macrophage Fusion
3162 LS	Archeta Rajagopalan Characterization of TC-2153 Inhibition on Striatal-Enriched Protein Tyrosine Phosphatase (STEP) in Human Cell Lines
<b>Washington</b>	<b>The Gunnery</b>
6034 PS	Grace Herrick Evaluating the Performance of a Model Solar Concentrating System Using Thermoelectric Generating Technology
<b>West Hartford</b>	<b>Solomon Schechter Day School</b>
2018 L7	Casey Greenbaum Can smell affect your taste?
2038 L7	Samara Gordon-Wexler Does the Bouba-Kiki Effect Apply to Real World Objects and Shapes
2528 L8	Rebecca Gold What Makes Your Heart Beat? Scary vs Neutral Text, Reading vs Listening; A Follow-up Study
<b>West Hartford</b>	<b>St. Brigid School</b>
2034 L7	Dylan Errico Seeds Sprout Best...
4008 PT	Nicole Mealha Julia Wiener Battle of the Brands
<b>West Hartford</b>	<b>St. Timothy Middle School</b>
5008 P7	Alexis Aiudi Homopolar Motor From Faraday To Now-A-Day
5040 P7	Michael Baldini Supercool
5509 P8	Devon Lane Bell Curve
5562 P8	Benjamin Lavoie Wind Power
<b>West Haven</b>	<b>Notre Dame High School</b>
6109 PS	Roy Smith Alternate Modal Cars
<b>Westport</b>	<b>Staples High School</b>
3054 LS	Grace Meehan Nin1's Effect on Endoplasmic Reticulum Structure and Nuclear Migration
3114 LS	Connor Weiss FRET based intercellular ATP imaging for testing of BCL-xL as a mitochondrial efficiency enhancer during Long Term Potentiation.
3121 LS	Jeffrey Burns The Feeding Behavior of Squilla empusa in the Long Island Sound
3127 LS	Malin Hovstadius Structure-Based Analysis of The CXCR4 N-Terminus
3135 LS	Max Kantor An Assessment of the Reefs in the Windward Islands Due to the Presence of Pterois volitans
3147 LS	Virginia Gerig The Effectiveness of Plant Material as Metal Chelators
3150 LS	Liana Sonenclar The Effect of the Environment on the Development of a Food Allergy: A Sibling Study
3153 LS	Alyson Rackson Third Grade Student-Teacher Interactions
3159 LS	Sara Banbury The Population Dynamics of Inteins: Investigative Analysis of Metagenomes
6011 PS	Catherine Rotondo Optimal Lens Configuration for SunLight Redirection
6042 PS	Zach Effman A Probe of the Phase Space of Celestial N-body Systems and Its Implications for Extraterrestrial Life
6048 PS	Charlotte Tyminski The effect of modifying the probability of adding the two previous numbers in the Fibonacci Sequence on a randomized Fibonacci Sequence's "golden ratio"
6063 PS	Scott Pecoriello Global Dynamic Numerical Computer Forecasting Models: Comparing the ECMWF to the GFS
<b>Willington</b>	<b>Hall Memorial School</b>
2512 L8	Ashley Park Water Purification
2540 L8	Abigail Donaghy Geotropism and Phototropism with Lima Beans

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4022 PT	James Hipsky Joey Fluet	Chemical Propulsion
<b>Wilton</b>	<b>Middlebrook School</b>	
1010 LT	Emilie McCann Nora Hoch	Use of a Microbial Fuel Cell to Generate Electricity from Compost
4024 PT	Duncan Vogel Albert Wei	Have Some Sympathy!
5030 P7	Jonathan Wu	Solar and Wind Power
<b>Windsor</b>	<b>Madina Academy</b>	
1001 LT	Jareen Choudhury Samar Saeedosman	Are Eggshells an Effective Fertilizer?
1012 LT	Nuha Ashraf Alina Mohammed	Effects of Ethanol, lemon, peppermint, and ginger extracts on e.coli
4030 PT	Nader Kasem Khaleel Rahman Ayman ElSherbini	Novel Methods for Water Desalination by Harnessing Solar Energy using a Solar Oven With Flat Mirrors, Fresnel Lens and a Parabolic Mirror
5029 P7	Maryam Moghul	To Design A Self-Sustained Wind-Microbial Hybrid Device that will Generate Clean Hydrogen for Energy
<b>Windsor</b>	<b>Madina Academy Upper School</b>	
3045 LS	Quratulain Ishfaq	The Utilization of Turmeric Gum as a Reducing Agent for Microbes
3511 LST	Shakeel Choudhury Haarith Vohra	The Effects of Black Seed Oil and Thymoquinone on Bacterial Growth
3518 LST	Arooba Peracha Ayesha Khan	Observing the Effects of Biochar Soil Additives on Plants Grown with Pumpkin, Pomegranate, and Papaya Seed Fertilizers while Determining the Best Fertilizer for Plant Growth
6118 PS	Sithy Mahamoon	A Potential and easy to use, low cost Diabetic Test for use in Developing Countries and Rural Areas
6513 PST	Rayyan Ashraf Osama ElSherbini	Calories to Watts: Novel methods that utilize exercising energy using piezoelectric generators
6521 PST	Aasiya Ahmed Aden Khan Usra Qureshi	A Novel Wind Turbine Design Incorporating Photovoltaic Cells and Piezoelectric Sensors
<b>Windsor</b>	<b>St. Gabriel School</b>	
5003 P7	Adanya Jeudy	How does Color Affect Heat ?
5015 P7	Emile Shwayhat	Acceleration Explanation
5505 P8	Justin Lam	Electromagnets
5540 P8	Max Mossberg	Bio vs. Fossil Fuels
<b>Woodbridge</b>	<b>Amity Regional High School</b>	
3005 LS	Kristin Zakoworotny	The Role of Asymmetric Division in Memory B-Cell Development
3021 LS	Lamisa Mannan	The Collemobola Consumes the Fungi: Interaction Between Two Important Soil Species
3029 LS	Victoria Liu	Assessing the Correlation Between a Folate Deficiency During Pregnancy and Low Birth Weight
3036 LS	Dana Chung	Determining the Effects of Cyberknife Radiosurgery for Trigeminal Neuralgia Part 2
3069 LS	Matt Whitehill	The Nepal Project: The Impact of Soil Degradation on Soil Fertility
3083 LS	Jennifer Zhu	Stress, Stress coping, and Self-Esteem among Asian American Youth
3095 LS	Victoria Li	The Effect of Parental Reading Behavior on Children's Reading Behavior
3108 LS	Cindy Guo	Targeted Therapy for Lung Cancer
3122 LS	Helen Liu	Differentially expressed genes involved in Paget's disease of bone in response to SQSTM1 status

<b>Proj#/Category</b>	<b>Students/Project Title</b>
3134 LS	Samantha Austin <b>Ilio-sacral and Ilio-femoral Joint Relation in the Positioning of Iguanas in the Lizard Tree of Life</b>
3144 LS	Owais Khan <b>Teaching English Language Skills via Interactive Storytelling with a Spanish-Speaking Robot</b>
3154 LS	Arpita Jajoo <b>H19 IncRNA-Mediated Regulation of Aromatase Expression in Granulosa Cells</b>
6033 PS	Arvene Golbazi <b>Exploring the Storage Capacities of Carbon Nanotube and Graphene Based Capacitors</b>
6086 PS	Joseph Neumann <b>Studies of Phase Separation using Ferrofluids as a Model</b>
6124 PS	Daniel Giebisch <b>Designing a circuit board to wirelessly power a Left Ventricular Assist Device (LVAD)</b>
<b>Woodbridge</b>	<b>Ezra Academy</b>
1020 LT	Avishag Ashkenazi Tatiana Criucova Yaakov Gottlieb <b>Effect of various temperatures on fly locomotion.</b>