

Date: 3/3/2018

# Projects

## 2018



# Connecticut Science & Engineering Fair

## Quinnipiac University

### March 12 - 17, 2018

Proj#/Category	Students/Project Title
<b>Avon Avon High School</b>	
3536 LST	Jaya Hari Dheepa Hari MyMedWallet: Personalized Medical Organizer App
<b>Avon Talcott Mountain Academy</b>	
2505 L8	Julian Kage Development of rapid test for Lyme bacteria in ticks
2516 L8	Emma Ruccio Got Your Back
5030 P7	Alexandros Cooke-Politikos Black Holes - The Insatiable Hunger
5532 P8	Spencer Li Life+
5538 P8	Ari Starr MediTrack
5542 P8	Brendan Glastris Acoustic Anomaly Detector
<b>Baltic Sayles School</b>	
1002 LT	Abigail Staggs Ashlyn Bill Caffeine's Effect On Plant Growth
4018 PT	Brendan Bezanson Hunter Bittman Black Light Experiment
5559 P8	Emily Topalis Can You Blame the Burnt Cookies on the Pan?
<b>Bethany Amity Reg Middle School - Bethany</b>	
2503 L8	Maggie Liu Toxic Metals
4015 PT	Ellina Medovnikov Audrey Marin Preventing SIDS From Suffocation
5503 P8	Peter Berganross 3D Printed Medical Boot Modifications for Comfort
5524 P8	Parker Paragas Track Shoes 3D Printed to the Shape of Your Foot.
5528 P8	Harry Wyndorf Mini Generator
5534 P8	Michael Coyne The Rolling Cane
5546 P8	Sandra Correya The Portable Linux Terminal
5548 P8	Adam Florkiewicz LightOff
5550 P8	Sage Paglia Manual Tightening Prosthetic Hand
5556 P8	Karli Scianna 3D Printed Dog Prosthetic
<b>Bethel Bethel High School</b>	
3046 LS	Connor Brescia Deca-Pods
6049 PS	Ryan Lemone Lowering SLS Costs with Preexisting Solid Rocket Boosters
<b>Bethel St. Mary School</b>	
2030 L7	Anna Kopec Hot and Hard Headband
2506 L8	Magdalena Swierczek New Creature in the Sea.
2513 L8	Caroline Tucker The Effect of Digestion on Sugary Drinks
2526 L8	Oona Tuccinardi "Wifi - Harmless or Harmful"
5025 P7	Kayla O'Marra Reusable Hand Warmer Magic
5035 P7	Nick Cristofalo What happens when you add acids to base solutions.
5504 P8	Steven Reese Building an app
<b>Bozrah Fields Memorial School</b>	
2024 L7	Norah Tracy Do different species of tree's growth patterns vary when looking at their growth rings?
5027 P7	Alanna Brady How Do Variables Impact The Amount of Energy Collected by a Wind Turbine

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5535 P8	Morgan Tainter	Using Robotics for Investigating Underwater Habitats
5541 P8	Elijah Ramthun	Water Temperature and Hurricane Prevention
<b>Bridgeport</b>	<b>Bassick High School</b>	
3537 LST	Topacio Reyes Itzel Sanchez	Human Brain - Testing Musical Notes
<b>Bridgeport</b>	<b>Blackham School</b>	
1007 LT	Daniel Tarazona Normiana Manzano	Strawberries and DNA
4022 PT	Jaden Jones Michael Molina	Brilliant Bulbs
<b>Bridgeport</b>	<b>Bridgeport Military Academy</b>	
3010 LS	Dafne Hernandez	Teen Generations:Stress Levels and Its Sources
<b>Bridgeport</b>	<b>Bridgeport Regional Aquaculture</b>	
3031 LS	Evan O'Keefe	Amplifying Heat Shock Protein Expression in Glycine max for cross protection against substandard growing conditions.
3036 LS	Brian Duffy	Development of a Mucin Based Biomedical Adhesive Gel
3047 LS	Clayton McGoldrick	Development of a Migration Model For Morone saxatilis Based on Thermal Shifts in Long Island Sound
3051 LS	Alia Aguilar	Regulation of Lemna minor Reactive Oxygen Species through Iodide and Tyrosine Antioxidant Treatments to Maximize Biofuel Yield
6004 PS	Jinkuk Hong	Investigation of Recycled Concrete Aggregate as a low-cost CO2 sequestration vehicle through Indirect Mineral Carbonation
6021 PS	William Mergenthaler	Synthesizing a Flexible, Conductive, and Biodegradable Polymer Matrix, Composed of Graphene and Chitin.
6023 PS	Jamielyn Iquina	Development of a Portable, Kinetic Driven, Ozone Based Water Purification System for Application in Disaster Relief
6030 PS	Ethan Skuches	The Analysis of a Biochar Containment Boom as a Mitigation Technique for Relic Pollutants after Marine Dredging
6055 PS	Danny Jagoe	Inhibiting the Formation of Methane Hydrates using Zeolite Minerals and Hydrophilic Polymers in Natural Gas Pipelines.
6068 PS	Julia LaPenna	The Utilization of Light Amplification by Stimulated Emission of Radiation in Amalgamating Free-Space Optical Communication and Wireless Power Transmission
6074 PS	Catherine Odendahl	A Novel Heavy Metal Remediation Technique Utilizing a Photocatalyst Driven Graphene-Cupric Oxide Matrix
<b>Bridgeport</b>	<b>Central High School</b>	
3054 LS	Alayjah Evans	Are plants underrated heroes?
6072 PS	Omed Hossaini	Solar Travels
6092 PS	Carlos Guzman	Salty Fuel Energy
<b>Bridgeport</b>	<b>Classical Studies Magnet Academy</b>	
2501 L8	Yaelis Perez	Will H2O Win?!
<b>Bridgeport</b>	<b>Fairchild Wheeler Magnet High School</b>	
3009 LS	Mariam Dobosz	Comparing Biofilm Formation on Naturally Occurring Antimicrobial Nanostructures from Squalus acanthias, Cicadidae sp., and Nelumbo nucifera
3078 LS	Valerie Navas	How do emotions effect your blood glucose?
3102 LS	Olivia Wallon	Echinacea's Effect on Stress Induced Immunodeficiency in Crickets
3506 LST	Emma Turchuk Fidel Gomez	The Effects of Peppermint on Reaction Time and Performance
3532 LST	Alex Aquino Erin McMurray	The Effects of Mental Stress on Physical Health
6026 PS	Kenny Pineda	Extinguishing fire with sound
6038 PS	Mansi Kabre	Amount of Chlorine in Water, Compared to the Resulting Chloramine

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6507 PST	David Williams Cynthia Demora	Inductive Power Line
6514 PST	Luca Pietrangeli Angus Foden	Bartholomew's Vest
6527 PST	Citlalli Tomas Musau Kalala	Alkalosis and Acidosis: How Dieting Affects Abnormal pH Levels in the Human Body
<b>Bridgeport</b>	<b>Geraldine Claytor Magnet Academy</b>	
4026 PT	Iris Rivera Clementine Gnoto Ahkiriah Johnson	How does the type of cup affect how long the coffee will stay hot?
<b>Bridgeport</b>	<b>James J. Curiale School</b>	
2522 L8	Christopher Leary	How does the amount of pitches on your water wheel affect the amount of energy produced?
<b>Bridgeport</b>	<b>John Winthrop School</b>	
2027 L7	Richard Zou	How does Water Salinity Affect a Scallion's Growth
2524 L8	Isabelle Seara	Gases and Beverages
<b>Bridgeport</b>	<b>Multicultural Magnet School</b>	
2031 L7	Savannah Guzman	To grow or not to grow
2532 L8	John Paul Atehortua	An Invisible Enemy That Kills
<b>Bridgeport</b>	<b>Park City Magnet School</b>	
5552 P8	Thu Do	Wat(H)er Spin if Off
<b>Bridgeport</b>	<b>Park City Prep Charter School</b>	
1003 LT	Dianna Ismail Imrath Saboor	5 Second Rule?
1012 LT	Jenifer Bonilla Elysia Couvertier	The Effects of Ocean Pollutants on Marine Organisms
2002 L7	Emily Colon	Does Practice Make Perfect?
2011 L7	David Boudreau Jr	Can Plants Grow In Different Liquids?
2028 L7	Jeremiah Hernandez	The Force To Seperate
2511 L8	April Almeida	Organisms in an Ecosystem
2515 L8	sanaa hatton	Germs germ everywhere
2536 L8	Isabelle Patrick-Oliveira	Seed Germination With Different Liquid
5015 P7	Nathyis Barros	The importance of ammonia in the formation of salt crystals
5557 P8	Alyssa Hall	The Novel Method Of Oil Spill clean up using biomasses
<b>Bridgeport</b>	<b>Roosevelt School</b>	
4002 PT	Moeez Khawaja Jordan Boothe Troy Holtzer	magnetic top leitation
<b>Canton</b>	<b>Canton High School</b>	
6073 PS	Cole Marcuccio	Creating, Optimizing, and Testing a Mathematical Model of the Chemical Production of Biodiesel.
6076 PS	Aidan O'Donnell	Optimizing Hydraulics
6080 PS	Jane Frawley	The Speed is in the Shoes
<b>Cheshire</b>	<b>St. Bridget School</b>	
2537 L8	Kavin Kathir	Transforming Trash Into Treasure: A Sustainable Approach To Oil Spill Cleanup
5033 P7	Juliana Janezic	Staining Effects of Five Popular Beverages Using Eggshells to Represent Teeth
<b>Danbury</b>	<b>Abbott Tech - Green STEP</b>	
6028 PS	Alexander Miski	Which Is The Best Water Test Kit?

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6052 PS	Josep Tello	Urban Heat and water circulation. I want to find the effectiveness of using the heat that is on the roof of a building to circulate water for heating.
6521 PST	Abraham Munch Jack Thomson	What is the "R" value of hay if it is used as an insulator.
<b>Danbury Danbury High School</b>		
6016 PS	Jeffrey Osborne	Harvesting Wind From Urban Street Canyons Using a Double Helix Wind Turbine
6088 PS	Aleena Jacob	Crystal Woods
<b>Danbury Immaculate High School</b>		
6008 PS	Elias Haddad	Effective Catalytic Conversion of Plastic Waste into Fuel
<b>Danbury St. Gregory the Great School</b>		
1013 LT	Mary Grace Fontana Sarina Steinerd	Now you "C" it, now you don't
2514 L8	Melanie Seaman	Bloom of Doom
4004 PT	Thomas Fanelli Daniel Goetz	"Perpetual Motion" Or "Perpetual Failure"
4020 PT	William Murphy Joseph Falcao	Overpowering Radiation
4025 PT	Anna Flaherty Arshei Flores	Wind vs Water
5007 P7	Aiden Doolabh	What Materials In Homes Can Block Wi-Fi Signals?
5034 P7	Max Coisman	The Efficiency of Different Types of Algae in Creating Self-Sustaining Microbial Fuel Cells
5526 P8	Jennifer Hanley	Wifi? Why not?
<b>Danbury St. Joseph School</b>		
1001 LT	Christian Jeffers Georen Chirayil	Growing, Growing, Gone! A Fertilizer Experiment
1014 LT	Talia Pereira Sadie Jarboe	Water you drinking?
2021 L7	Emily Cruz	Color or Black and White? Which Evokes More Emotion
2512 L8	Bronwyn Hyland	Stunted Growth: How Do Cell phones Affect Plant Growth and Can Certain Materials Prevent It?
2529 L8	William Doran	The Effects of Microwave Rays on Plants and Yeast
2531 L8	Conor O'Keefe	The Effects of X-ray Radiation on the Germination and Growth of Radish Plants.
4029 PT	Dominic Chila Matthew Yastremski	The Real Wheel Deal
5515 P8	Chase Stanton	Temperature's Effect on the Brightness of LED Light Bulbs
5525 P8	Aidan Gage	Temperature and Magnets
<b>Danbury Westside Middle School Academy</b>		
2504 L8	Vincent Trombetta	A Study on Angiosperm Xylem Based Sucrose Filtration Systems
2510 L8	Alex Morquecho	How can forest fires help soil regain their nutrition, and let the plant grow taller?
2520 L8	Patrick Seiler	The Effect of Water Pollution on Daphnia Pulex Heart Rate
2525 L8	Mathew Mathew	Impact of natural and chemical preservatives to extend the shelf life of apple cider.
2530 L8	Stephanie Queiroz	How does Bacteriophage Phi x 174 affect with E. coli differently than Bacteriophage MS2?
5028 P7	Aidan Scott	The Effect of Fin Surface Area on Rocket Rotation at Different Locations on the X, Y and Z Axes in Relation to its Launch Point, While in Flight
5506 P8	Stella Walker	The Effect of Barometric Pressure on the Speed of Wifi
5523 P8	Timothy Chen	Effect of Spiral Spacing on Conversion Efficiency of Horizontal Axis Spiral Wind Turbine
5527 P8	Paloma Lenz	Stormwater Pollution: The Effectiveness of Zeolites in Decreasing Levels of Nitrate in Runoff

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5547 P8	Khushi Parikh	Image Recognition to Diagnose Lyme Disease
<b>Danielson Ellis Tech - Green STEP</b>		
3512 LST	Dylan Bonneau Aaron Breen Michael Page	Solar Powered Golf Cart
3530 LST	Colby Loiselle Macory Merrill Matthew Bellavance	Heated Soil: Does Soil Temperature Effect Plant Growth? A Solar Greenhouse with Radiant Heat
<b>Darien Darien High School</b>		
3006 LS	Chris Vernal	Creation of a Screening Tool for Assessing Baseball Pitching Biomechanics
3038 LS	Tanmay Mehta	Mean Platelet Volume as a Possible Diagnostic Marker for Myeloproliferative Neoplasm Disorders
3069 LS	Onora Brown	Discovering the Pathogen Responsible for Gorgonian Wasting Syndrome on the Gorgonia ventalina sea fan
3076 LS	John Goll	Effects of Bt Insecticides on the Mortality Rate of Juvenile Horseshoe Crab
3083 LS	Paul Hager	Expression & Localization Mapping of PLEKHA7 & RNAi-Associated Proteins in HUVEC Cells
3088 LS	Alexandra Swift	The Bioaccumulation of Methylmercury in Atlantic Silversides
3093 LS	Carson Halabi	Screening of Northeastern U.S. Bat Colonies for Pseudogymnoascus destructans, the Causative Agent of White Nose Syndrome
3535 LST	Corinne Bevill Emily DeNunzio	The Effect of pH on the Dissolved Oxygen Level in the Long Island Sound
6014 PS	Daniel Pfrommer	Fast Point-based Raytracing with Sphere Bounding Volume Hierarchies
6050 PS	Kellie Arevalo	Comparing Dissolved Oxygen (% and mg/L) between Mamaroneck bay and Darien harbor
6525 PST	Emily Findlan Cheyenne Li	Positive Holes as Early Indicators for Future Earthquakes
<b>East Hartford St. Christopher School</b>		
2016 L7	Mary Poirier	Plants!
5502 P8	Tatiana Rosario	What Causes Your Stains?
<b>East Lyme East Lyme High School</b>		
3543 LST	Andrew Zhang Mingfei Duan Alexa Stewart	Influence of conditioned mental state on spatial learning in Drosophila hydei
3551 LST	Jonathan Tan Eric Gu Connie Tang	Ants Under Pressure
<b>Ellington Ellington High School</b>		
6101 PS	Tina Ma	A natural cooling system for the last mile of vaccine delivery
<b>Fairfield Assumption Catholic School</b>		
2008 L7	Cadae Thomas	Plants Jammin!
4007 PT	Joseph Grabowski Bronson Vo	The Nexu Helmet
<b>Fairfield Fairfield College Preparatory School</b>		
3026 LS	Antonios Boudreau	Low to Zero Cost Water Filtration Using Common Fungi
3520 LST	Shu Guo Fanzhe Meng Chenhao Li	Mars Colonization Base Plan
<b>Fairfield Fairfield Ludlowe High School</b>		
6083 PS	Srihita Mediboina	Options Pricing Models Using Machine Learning

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<b>Fairfield</b>	<b>St. Thomas Aquinas Catholic School</b>
1006 LT	Kathryn Fitzgerald Elliana Gallagi What Whitens your Teeth the Best
4014 PT	Andrew Cimmino Joshua Dixon Desalination: A Clean Water Alternative
4028 PT	James Spengler Thomas Nardone Does color affect your memory?
5018 P7	James Cunningham Can a Magnet Clean Up An Oil Spill
5520 P8	Isabelle Morse Cosmetic Science: What Product Best Protects Lips
<b>Falls Village</b>	<b>Lee H. Kellogg School</b>
2527 L8	Avery Tripp How Distance from Compost Affects Soil Nutrient Levels
5529 P8	Natalie Wadsworth Rust Never Sleeps
<b>Fishers Island</b>	<b>Fishers Island School</b>
3012 LS	Nicholas Oickle The Stimulation and Inhibition of the Capitite Peg Neuron A in Mosquitoes
3061 LS	Caroline Toldo Prevalence of Invasive Green Crab and Asian Crabs on Fishers Island
6048 PS	Brooklyn Redo Quantitative Analysis of the Susceptibility of Bacillus Subtilis, Chemical and Physical Protectants and the Denaturing of the Protectants from Harmful UVB Wavelengths of 320-290nm
<b>Forestville</b>	<b>St. Matthew School</b>
2015 L7	Adam Zwolinski A Plant's Favorite Color
2025 L7	Malcolm Stratton Read, Set, Grow
2508 L8	Ciara Collins Cleaning Coins
2535 L8	Peyton Kindblom How Pigments "Leaf" The Plant
<b>Glastonbury</b>	<b>Glastonbury High School</b>
3015 LS	Athulya Narayanan INVESTIGATING THE EFFICACY OF SELENIUM AND MANGANESE FOR CONTROLLING PNEUMOCOCCAL INFECTIONS
3022 LS	Jayna Mikolaitis THE DEFINITION OF THE MEDITERRANEAN DIET AND STANDARD MEANS TO MEASURE ADHERENCE
3033 LS	Sophia Ladyzhets Investigating the Mechanisms for Tkv Degradation and Maintenance of Germline Stem Cell and Gonialblast Populations in Drosophila Testes
3056 LS	Samarth Venkata Menta ROLE OF MIR-433 IN OSTEOSARCOMA INITIATION, PROGRESSION, AND DRUG RESISTANCE
3068 LS	Fiona Jones Archaeological soil samples from Native grave sites may allow anthropologists to further understand northeastern Native American burial culture and ritual
3084 LS	Amelia Packard MIRRORS AFFECTING HUMAN BEHAVIOR WITH RESPECT TO DIFFERENT PERSONALITY TYPES
3097 LS	Sameeksha Agrawal Correspondence between the location of brain lesions and language behavior in aphasics: A voxel lesion symptom mapping study
3100 LS	Dante Morgera NOVEL DRUG INHIBITORS AFFECT CONFIRMATION OF CANCER SUPPRESSOR USP7
6007 PS	Dina Allam Adsorption of Antimony Using Mesoporous Alumina
6022 PS	Tushar Sondhi ENGINEERING AN ENZYME RESPONSIVE GENETIC DELIVERY VEHICLE
6025 PS	Abhi Mohnani Electronic Stethoscope System for Monitoring and Analyzing Bowel Sounds
6063 PS	Rebecca Lee EFFECT OF MODIFYING THE STRUCTURE OF A KNOWN CONFORMATIONALLY RIGID CYCLIC TUNGSTEN BIS-ALKYNE COMPLEX ON BEHAVIOR AND FLEXIBILITY
6078 PS	Nicole Nguyen The Impact Of Methoxy On The Nucleophilicity Of Re(Pyridine-Oxazoline)(Co) <sub>3</sub> Cl And Its Rate Of Co <sub>2</sub> Conversion
6104 PS	Devin Wasilefsky Exploring the Variability of Light in the Nucleus of Galaxy NGC 4395
<b>Glastonbury</b>	<b>Smith Middle School</b>
5024 P7	Anika Ahilan Cure For The Blues: A green, low cost adsorbent for removal of dye from aqueous solutions
5505 P8	Imran Qureshi Measuring Sugar In Soda

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<b>Greens Farms</b>	<b>Greens Farms Academy</b>
2003 L7	Makda Tessema App for Charities in Connecticut
2519 L8	Madison Gordon The Effect of Cleaning Solutions on Bacteria that Grows on Cell Phones
2534 L8	Kavya Krishnamurthy The Effect of Bacteriophage on E.coli Bacteria
3016 LS	Grace McGonagle Finding and Comparing the Ethanol Yield of Connecticut Invasive Plant Species
5036 P7	William McGonagle The Traft
5039 P7	Jamie Paterson The Next Climbing Helmet
6015 PS	William King Combining digital interfaces with smart robots to easily make images in fields
6019 PS	Kendall Roche Location Technology for the Blind
6027 PS	Andrew Chen A piece of unique-shaped furniture that is able to sustain a lot of weight and send signals to the rescue team about # buried people and their location.
6035 PS	Kevin Maldonado Simulated Effects of Hydrophobic Coatings on Closed-Cycle Ocean Thermal Energy Conversion Systems
6053 PS	Conner Calzone The Creation and Storage of Kinetic Energy through the Transportation of Water through a Hippo Roller
6075 PS	Sean Minson The use of Technology to limit out of bounds errors in sports by referees
6094 PS	Lila Wells Use of Multi Walled Carboxyl-Functionalized Carbon Nanotubes with PTPN22 Antibodies in Detecting Abnormal Levels of Tyrosine Phosphatase for Autoimmune Biosensing Applications
<b>Greenwich</b>	<b>Brunswick School</b>
3040 LS	William McLaren A comparative analysis of the efficiencies of hydroponic and aeroponic systems
3049 LS	Jamison Meindl Use of Regression Analysis to Predict Future Outbreaks of Malaria
3079 LS	Logan Darrin Dimethylglycine: An Investigation on the Aerobic Capacity of Yeast
3503 LST	Asher Porphy Timothy Saunders An Investigation of the Behavioral and Reproductive Patterns of Hemigrapsus Sanguineus
3515 LST	Lucas Delgado Alexander Burdick Improving Durability and Strength of Bombyx mori Silk by Fortifying Primary Food Source
3538 LST	AJ Delgado Ryan Mulshine Methylmercury Concentrations in Fish Tissue: A Further Analysis of Fish in the Long Island Sound vs. the Atlantic Ocean
3546 LST	Thomas Foley Thomas Kimberlin A Lense to Explore Life on Other Planets: Using Targeted Genome Editing Technologies to Test Survival in Extraterrestrial Environments
6001 PS	Matthew Pillari Diagnosing Knee Osteoarthritis using Artificial Neural Networks
6045 PS	Eric Meindl Perovskite v. Silicon Solar Panels: the Effect of Mirrored Light on Overall Efficiency
6082 PS	Ryan Glanville Solar Geoengineering: The Capacity of Aerosols to Reflect Light and Reduce Temperature
6503 PST	William George Harold Barringer Utilization of Vertical Tidal Range to Generate and Store Electrical Current
6529 PST	David Swigart Philip Chadwell Harvesting Kinetic Energy from Waves using Hydro-Turbines
6532 PST	Peter Lehrman Alexander Morgan Examination of the Magnetic Levitation Wind Turbine and its Conventional Counterpart
<b>Greenwich</b>	<b>Greenwich Catholic School</b>
2020 L7	Sebastian Henao Hydrogen Power
2517 L8	Ella Ann Woei Music Therapy APPLIED
4005 PT	Sofia Caracciolo Morgan Adamson Maria Profili Creamalicious
5554 P8	Monica Marino A SUPERIOR VITAMIN THAT IS ANTI-INFLAMMATORY AND ANTIBACTERIAL "VITAGUMMIES"
<b>Greenwich</b>	<b>Greenwich Country Day School</b>
5031 P7	C. Brooks Harris A computer can use machine learning to teach itself to be as good or better at blackjack than the experts.



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<b>Greenwich</b>	<b>Greenwich High School</b>
3035 LS	Collin Marino Autonomously Killing Cancerous Cells by the Detection of up to Single Nucleotide Mutations
3042 LS	Emily Philippides Controlled-Release Delivery of Ovarian Anticancer Paclitaxel via Vortex Ring, Donut-shaped Hydrogels
3057 LS	Shobhita Sundaram Detection of Early-Stage Alzheimer's Disease via Hierarchical Classification of Proteomic and Clinical Profiles
3060 LS	Rahul Subramaniam Non-Invasive Colorimetric Biosensor for Early Diagnosis of Prostate Cancer Through DNA-Mediated MicroRNA Detection
3064 LS	Bennett Hawley Biomimetic Degradation of Persistent Pollutants Using Common Wax Worm <i>Sakaiensis</i> Bacteria
3070 LS	Dante Minichetti Honeybee Melittin Apitherapy for Targeted Cancer Suppression and Decimation
3075 LS	Romano Orlando Design and Fabrication of a Smart, Medicated Gel Bandage to Deliver Antibiotics to a Draining Wound
3087 LS	Hiba Hussain Non-Invasive, Low Cost Diagnosis of Chronic Obstructive Pulmonary Disease (COPD) via Smartphone Breath Analysis
3095 LS	Joe Konno Ultrasensitive, Lab-on-a-Chip Detection of HIV via a Fluorescence-based, Europium-Doped Silica Nanoparticle Immunoassay
3103 LS	Hannah Goldenberg From Tobacco to a Chemical Cocktail: A Smoker's E-cigarette Alternative May Lead to Bronchiolitis Obliterans
3106 LS	Charlotte Hallisey Magnesium Micromotor-Enabled Delivery of Oral, All-Natural Antibacterials for the Effective Targeting and Treatment of Urinary Tract Infection Causality in Infant Mortality
6029 PS	Alexander Kosyakov New Abundant and Sodium-Free Metakaolin Solid Electrolyte Ceramic for Power Grid Na-Ion Batteries
6033 PS	Nicholas Liu Open-source, In-field Smartphone Detection and Mapping of Waterborne Diseases via Time-Based Spectroscopic Sensing with a New 3D Printable Optical Interface
6036 PS	Matthew Jester Alternating Sea Water - River Water Flow Cell Energy Extraction from Salinity Difference Electrochemical Batteries
6046 PS	Armstrong Park Predicting the Fluctuation of Stocks During the 3-6 Day Period Before and After Quarterly Profit Announcements
6051 PS	Raina Jain Magnetically-induced, Visual Detection of Trace Arsenic Contaminants in Water Using Fe <sub>3</sub> O <sub>4</sub> Photonic Crystal Structures
6058 PS	Nicholas Woo Remediation of Heavy Metal and Fertilizer-Runoff Contaminants using High Throughput, Silk Nanofiber Biomimetic Multilayer Membranes
6079 PS	Melissa Woo Ambient Carbon Dioxide Capture and Purified Gas Release Using Asphalt-Waste Derived, Porous Carbon Filtration
6090 PS	Amit Ramachandran Simple Gold Nanoparticle-based Colorimetric Detection of <i>Escherichia coli</i> in a Tap Water Matrix via Microfluidic Chip Assay
6098 PS	Verna Yin Cost-Effective and Fully Recycled Filtration of Heavy Metals from Drinking Water Using Used Coffee Grounds Embedded in Discarded Polyurethane Sponges
<b>Groton</b>	<b>Sacred Heart School</b>
5009 P7	Payton Noe How Do Mixtures of Chiral Substances Affect the Rotation of Plane Polarized Light
5021 P7	Avery Rembish Can Gravity Sort Beads?
5037 P7	Connor Harris Watt's the Cost?
5530 P8	Samuel Hammond Simple Motor and Electromagnet
5551 P8	Kathleen Power The Thermodynamics of Chemiluminescence
5560 P8	Julia Ferris Does temperature effect Helium loss from a balloon?
<b>Guilford</b>	<b>Guilford High School</b>
3101 LS	Mariam Kish Cystic Fibrosis Transmembrane Conductance Regulator Protein Misassembly in Correlation to Cystic Fibrosis
<b>Hamden</b>	<b>Sacred Heart Academy</b>
3019 LS	Shabrang Montazer Spice It Up: The Use of Turmeric to Preserve Milk
3052 LS	Kelly Frier Insights into cellular reprogramming: a computational biology approach.
6084 PS	Maria Papademetris Ammonia on Other Earths: Sensitive Chemical Tests for Future Probes
6097 PS	Adalyn Schommer Comparing the Strengths of Industrial and Medical Cyanoacrylates



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<b>Hartford</b> <b>Bulkeley high School</b>	
3524 LST	Daviely Rivera Kiana Torres <b>How will various acids affect the decomposition rate of an apple?</b>
3531 LST	Sanya Hewitt Alison Ramirez-Cahuana Merceda McClain <b>Which Starch Plant Produces the Most Fuel?</b>
3540 LST	Tatyana Santiago Jeaneily Mendoza <b>How can color therapy help people improve their well being</b>
6502 PST	Xavier Grant Natonia Hunte <b>Play Dough Solidification</b>
6508 PST	Alondra Rodriguez Tajon Nickson <b>Key Finding Application</b>
6520 PST	Lucas Diaz Shevaun Green Keyona Cameron <b>The theoretical and actual yield of 3 different chemicals</b>
6526 PST	Aisha Minteh Samanta Dumornay Mekyiah Thompson <b>How Do Various Liquids Affect The Rusting Process On A Metal Object?</b>
6534 PST	Raymonde Smith Lena Lac Shannel Senior <b>How Substance pH Affects Gummy Bear Mass</b>
<b>Hartford</b> <b>Environmental Sciences Magnet School</b>	
2005 L7	Brianna Sanchez <b>It's Brine Time: A Study of How Salinity Affects the Hatching Rate of Brine Shrimp</b>
2013 L7	Catherine Fay <b>Whats On Your Mind</b>
2022 L7	Maria Amisano <b>Memorizing With Music</b>
2029 L7	William Visalga <b>Informal Soldiers</b>
5014 P7	Adrian Lewczuk <b>Sweet And Bitter Turned To Ash</b>
5514 P8	Yanayra Rosa <b>Copper Water</b>
<b>Hartford</b> <b>Renzulli Academy</b>	
2023 L7	Alexis Maldonado <b>Potato Power!!</b>
4009 PT	Melanie Ramos Pwit Phoo <b>Crystals!</b>
4017 PT	Elhame Adam Mikhaila Entsiwah <b>Catch'em With Color</b>
4027 PT	Anthony Lessor Raphael Burgos Alano Oquendo <b>C-9: Project Solar Drone Project XD3</b>
4030 PT	Danielle James Nasere Lewin <b>Case No: 520910 Fingerprint Finding</b>
5013 P7	Jennifer Urbano <b>Science Behind Slime</b>
<b>Hebron</b> <b>RHAM High School</b>	
3030 LS	Isabelle Benson-Clarke <b>A Computer Model of The Effect of Familial Structure on the Spread of the Influenza Virus</b>
<b>Kensington</b> <b>St. Paul School</b>	
2018 L7	Reiyako Pigeon <b>Which gender has a better memory</b>
<b>Kent</b> <b>Kent School</b>	
6017 PS	Peiyuan Liao <b>Deep neural network based subspace learning of robotic manipulator workspace mapping</b>
<b>Manchester</b> <b>East Catholic High School</b>	
6040 PS	Madison Lee <b>Relation between different types of water turbine and the level of hydroelectric power produced</b>

Proj#/Category	Students/Project Title	
6091 PS	John Oei	Prototype Cotton Based Poly(N-isopropylacrylamide) Smart Hydrogel that Undergoes Hydrophilic-to-Hydrophobic Transition to Capture and Release Fresh Water from Humid Air
<b>Manchester</b>		<b>Manchester High School</b>
3041 LS	Miranda Jeans	How does cutting back Japanese Knotweed (invasive species) effect its blooming and seed production, and thereby slow down its spread?
3105 LS	Taylor Keyt	Does the Consumption of Certain Foods Affect Angiogenesis?
6005 PS	Khundker Hossain	Effect of Various Ambient Gases on Stability of Perovskite Solar Cells
<b>Milford</b>		<b>Lauralton Hall</b>
3004 LS	Rachna Vipparla	How do various sediments affect the growth and spreading of Naegleria Fowleri (Brain eating Amoeba)
3081 LS	Meghana Cheela	Is the application of plantago major effective in inhibiting bacteria and having medicinal benefits?
<b>Milford</b>		<b>Platt Tech - Green Step</b>
6504 PST	Veronica Novack Samantha Laste Taylor Jensen	Green Grocer. An app to reduce food waste and encourage healthy eating.
6515 PST	Christian Haupt Taylor Krieder Christian Ramos	Domestic Water Reuse System
<b>New Britain</b>		<b>Goodwin Tech - Green STEP</b>
3510 LST	Michael Lopez Thomas Batty James Tanski	Portable Emergency Water Filtration System
3517 LST	Juan Ospina Daneirys Rivera Xavier Santiago	Solar Hybrid Organic Charger (SHOC)
6505 PST	Nicholas Fusco Jace Lemrise	Mag Mover
<b>New Canaan</b>		<b>St. Aloysius School</b>
4021 PT	Andrew Tully Kali Dimitrov Alex Lanzillotti	Art of Drones
5012 P7	Jackson Saucedo	More Water, Less Carbon.
<b>New Haven</b>		<b>Betsy Ross Arts Magnet School</b>
2014 L7	Josiah Williamson	Clean up your act
2509 L8	Kendall Evans	Brushing Bacteria
5011 P7	Matilda Petrick	From Biomass To Biogas
5539 P8	Kaylee Fitzgerald	Hovercraft
<b>New Haven</b>		<b>Conte West Hills School</b>
5038 P7	Jose Sarango	The Heat Is On
<b>New Haven</b>		<b>Engineering and Science University</b>
3032 LS	Eva Heaphy	Mimosa Pudica and Their Relations to Plant Memory on a Cellular and Biological Level
6041 PS	Daniella Lebron	Ocular Alkali Burn Preventative: Innovative Eye Wash Station
<b>New Haven</b>		<b>Hopkins School</b>
2006 L7	Rhea Ahuja	Effect of Apple polyphenols (AP) on Lifespan of Drosophila models inflicted by Huntington's disease (HD) .
<b>New Haven</b>		<b>St. Bernadette School</b>
5004 P7	Isabella Purcell	Determining the count of electrolytes in various drinks
5501 P8	Christopher Enzo De Castro	Cracking M&Ms in the Microwave

Proj#/Category	Students/Project Title
<b>New Haven</b>	<b>Wilbur Cross High School</b>
3059 LS	Carlin Eswarakumar Do rewards affect neuro-electrical resistance?
3063 LS	Emmanuel Candelo-Diaz Comparing reaction times of Video Game Players with Non-Video Game Players and finding out who has a faster Reaction Time.
6061 PS	Maya Geradi Synthesis and Separation Of a Chiral Compound In Preparation Of a Positron Emission Tomography (PET) Radiotracer
<b>New Haven</b>	<b>Worthington Hooker Middle School</b>
2010 L7	Athena Brown Underwater Battle:The Effect of Pollution on Brine Shrimp
4008 PT	Dusty Gibbon Noah Brown Catapult Lab
4016 PT	Sage Urban Amelia Cox Solving the Flood Problem: One Rock at a Time
5001 P7	Julia Rosado Powered Up Potatoes
5522 P8	Aminah Fields Quiet as a mouse
5553 P8	Katherine Van Tassel Burning Calories: What's in Your Breakfast?
<b>New London</b>	<b>Bennie Dover Jackson Middle School</b>
1015 LT	Evangeline Baez Estefany Almanzar Eins
4024 PT	Taavi Veltheim Carissa Mims Healthy Or Harmful Application Prototype
5507 P8	Jennifer Fiestas Green Step
<b>New London</b>	<b>Science and Technology Magnet High</b>
3003 LS	Alexandria DeGunia Modeling origin of blood via patterns in stain.
3014 LS	Jane Statchen The Effect of Light Intensity on the Regeneration of Planarians (Dugesia sp.)
3039 LS	Kyle Heard Effects of Increased Acidity on Freshwater Chlorophytes (Euglena sp.)
3072 LS	Kiera McCord Seaweed Bio-extraction: Influence of Green Algae (Ulva spp) and Sugar Kelp (Saccharina spp) on Carbon Dioxide Levels in the Atmosphere
3077 LS	Luisanny Castillo Results of Construction Vibrations on the Opening and Closing of a Stomata.
3092 LS	Pedro Camacho-Leon Implications for Increased Acidity for Metabolic Function of Freshwater Microinvertebrates (Daphnia magna)
3098 LS	Christopher Silva The amount of carbon dioxide released by different model motor vehicles
3109 LS	Finella Smith Kinetics of Sucrose Conversion to Glucose Using Enzyme (Invertase) Across a Dietary Spectrum
3514 LST	Sara Beth Bouchard Oliver Gujjarro-Sines The Effect of Soil Acidity on Stomatal Concentrations of Solanum lycopersicum.
3521 LST	Jo Potter Jaelynn Potter Survivorship of Fresh Crustacea in Temperature Extremes
3539 LST	Ella Cook Julissa Rodriguez Drug Solubility: Influence of Acid Concentration on Solubilized and Unsolubilized Ibuprofen Over Time
6012 PS	Jaylen Callender Correlations Between Insulator Composition and Potential to Retain Temperature
6039 PS	Owen George Correlation Between Sodium Levels and Electrolyte Levels in Sports Drinks
6077 PS	Essoha Kadambaya Implication of Fuel Type and Volume on Terminal Velocity of Projectiles
6522 PST	Zachary Bachofner Zachary Stock Temperature-Viscosity Relationship in Predicting Seasonal Motor Function
<b>Newtown</b>	<b>Newtown Middle School</b>
2521 L8	Marguerite LaBanca Design and Testing of a Chitin-based Filter for Bio-remediation of Nitrates
<b>Newtown</b>	<b>St. Rose of Lima School</b>
2019 L7	Julia Cirone Does PH affect the growth of grass?
5006 P7	Thomas Simms The impact of angle on the amount of energy created by solar panels

Proj#/Category	Students/Project Title	
5008 P7	Isabella Thomas	Battery Life
5023 P7	Jaxon Geloso	The effect of air pressure on the dynamics of ball bouncing.
5026 P7	Nicholas Prieto	Effect Of Energy Drinks on Tooth Enamel
<b>Norwich</b>	<b>Norwich Tech - Green STEP</b>	
3501 LST	Kelsey Williams Douglas Rediger	Isolating <i>Bacillus thuringiensis</i> from Soil Samples in Order to Develop a More Effective Biopesticide for Agricultural Lepidopteran Pests.
3511 LST	Edward Russell Nathanael Padgett	Using the Tidal Zone as a Renewable Source for Antibiotic-Producing Microbes
3525 LST	Hailey Bill Emerald Haller	Creating Renewable Light Source in <i>Dionaea muscipula</i> Using GFP
6043 PS	Joshua McConnell	The Effect Cellulase and Pectinase Have on the Extraction Methods Used to Isolate the Oil <i>Spirulina</i> Major Algae Produces Which Can Be Converted into Biodiesel More Efficiently.
<b>Norwich</b>	<b>Norwich Technical High School</b>	
3017 LS	Gianpierre Roche	Can probiotic yeast be used to decrease the severity of Type 2 Diabetes symptoms in a <i>Drosophila melanogaster</i> disease model?
3053 LS	Christopher Papotto	The Effect of Teaching Through A Research-Based Curriculum Versus Traditional Methods on Educational Outcomes
3089 LS	Ryan Stollman	The Effect of the FAAH Gene on Alcohol Consumption and Inhibition in <i>C. elegans</i>
3505 LST	Emily Cherwin Makayla Carson	Perceptions surrounding mental illness can be diminished with education and knowledge about Dissociative identity disorder
3516 LST	Courtney Michaud Kyle Tempesta	Evaluating an LCHAD Deficiency Model System Created Using CRISPR/Cas9 and <i>C. elegans</i>
3519 LST	Kalli Campbell Tayler Plante	Education Increases Empathy Towards Autism.
3522 LST	Brianna Dziekan Athena Missios	Investigation of the Tenascin-X Protein and its Role in Ehlers-Danlos Syndrome
3534 LST	Halle Baron Sylkia Hernandez	Applying Educational Approaches to Reduce the Stigmas Associated with Attention Deficit Hyperactivity Disorder
3541 LST	Debbie Garcia Chloe Guzman	Modifying Adolescent Behavior by Educating them on Bipolar Disorder to Diminish the Stigmas associated
3544 LST	Noelis Guzman Ashley Varjenski Kaitlyn Stripling	Education's Impact on Perceptions About Borderline Personality Disorder
3547 LST	Gabrielle Martin Samantha Grott	What "Bugs" <i>Gromphadorhina portentosa</i> ?
3550 LST	Kaitlin Reen Genesis Tavarez	Knowledge will increase behavioral changes and acceptance of individuals experiencing obsessive-compulsive disorder
6506 PST	Michael Reid Matthew Cloutier	Research and construction of a Tesla Coil.
6510 PST	Aaron Steendam Justin Relaz	Robotic Hand
6524 PST	John Coleman Aaron Toof	The Effects of Breaking Down Universal Gold 1%/3% Foam Replacing ingredients with Renewable Resources
<b>Pawcatuck</b>	<b>St. Michael School</b>	
2001 L7	Molly Kulick	Does a female's sport and medical history affect their gait and possibly cause a gait abnormality?
5005 P7	William Wholean	Possible uses of magnets in modern construction and transportation
5508 P8	Samuel Montalto	The Effect of Brand Selection on the UV Blocking Ability of Sunscreen
<b>Plantsville</b>	<b>J.F. Kennedy Middle School</b>	
5020 P7	Alisha Paul	Rollin' Along

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<b>Redding</b>	<b>CT STEM FAIR - Amity Regional High</b>
3024 LS	Hannah Rappaport The Effect of Misophonia on Selective Attention Control
3048 LS	Nicole Mongillo The Effect of the Altering of the Light-Dark Cycle on the Mass (g) of Leafy Green Algae ( <i>Ulva lactuca</i> ) Eaten by the Periwinkle Snail ( <i>Littorina littorea</i> )
3108 LS	Alicia Gopal Determining the Effect of Flow on Time Perception
6042 PS	Jody Liu Comparison of 14-Day Survival and Development of <i>Lymantria dispar asiatica</i> and <i>Lymantria dispar dispar</i> on Out-of-Season Foliages
6093 PS	McAllister Dixon Determining Best 3D Printing Materials to Create Model Human Vertebrae
6531 PST	Austin Gilbride Joseph Benedetti Traffic Data Analysis of Car Crashes in New Haven
<b>Redding</b>	<b>Joel Barlow High School</b>
3002 LS	Rachel Wagner The Role of Temperature in Indoor Vermicomposting with <i>Eisenia Fetida</i> in Leachate Production and Quality via Limiting Nutrients P+ and N+
3013 LS	Sean Mullin Effects of Soil Composition on the Decline of <i>Fraxinus americana</i>
<b>Ridgefield</b>	<b>Ridgefield High School</b>
3018 LS	Annabelle Colao Testing the Effectiveness of Various Shading Materials on Mock Leatherback Sea Turtle Nests
3034 LS	Maia Clarkin Genetic Mechanisms Regulating Expression of Tor and EGFR Genes in Eusocial and Primitively Social Insects
3037 LS	Nicole Alindogan Functional Impact of RBP2 on Cellular Senescence and Pluripotency in Murine Breast Cancer Cell Lines
3058 LS	Adrianna Davis Using stable isotope analysis to understand the trophic ecology of sharks in North Carolina
3073 LS	Anna Landler A survey comparing percent colonization of various AMF species in tropical soils at varying levels of regeneration
6009 PS	Alexander Price Modeling Permafrost Degradation to Estimate the Irreversibility of Runaway Climate Change
<b>Rocky Hill</b>	<b>Rocky Hill High School</b>
6011 PS	Zirui Hao Reusable Paper with Light-based Writing
<b>Sandy Hook</b>	<b>Newtown High School</b>
3043 LS	Tristan Filiato The Effect of Mushroom Spores on Condensation
6003 PS	Brendan O'Hara The Effect of Dark Energy on Photons
<b>Shelton</b>	<b>Shelton High School</b>
3001 LS	Jules Cayer The Effect of Weather Patterns on Migraines
3542 LST	Trista Oddo Jaylee Zwaan Eye Color Ability
3545 LST	Phoebe Rodia Iris White Brooke Weiss Doggy Doorbell
6013 PS	Kyle Young Fire Hydrant Alert System
6059 PS	Sarah Gloria Enhancing Latent Prints Visualized through Iodine Fuming with Magnetic Powders
6062 PS	Spencer Hatfield Pumping Iron
6086 PS	Jacob Zuklie Electricity on the Go
6096 PS	Cora Welsh Snow: The Atmospheric Scrubbing Brush
<b>Shelton</b>	<b>Shelton Intermediate School</b>
4006 PT	Alexa Civale Isabella Silvis Lets Bounce
4012 PT	Kayla Bretan Maddigan Leifer Autumn Murphy The Stretchiness of slime
5518 P8	Sofia Gasbarro Sneaker Feature 2

Proj#/Category	Students/Project Title		
<b>Southington</b>		<b>J.A. DePaolo Middle School</b>	
5019 P7	Madalyn McAuliffe	That's How The Cookie Crumbles	
<b>Southington</b>		<b>Southington Catholic School</b>	
5509 P8	John Galvin	INVISIBLE FORCE:: Creating Magnetic Fields	
5521 P8	Ana Cawley	Money Laundry	
<b>Stamford</b>		<b>Bi-Cultural Day School</b>	
1005 LT	Zachary Isaacs David Klein	Studying The Impact Of Acid Rain And Gutter Water On The Growth Of Three Plants	
2017 L7	Naomi Hanna	Comparing Organic and non organic seeds in filtered and non filtered water,	
2026 L7	Daniel Goldberg	The Effect of Salt Water on Radish Growth	
2538 L8	Anna Lichtenberg	The Impact of Antibacterial Soap on Daphnia Magna: Implications for the Environment	
<b>Stamford</b>		<b>Independent - The Harvey School,</b>	
2507 L8	Wendy Lichtenberg	Sugars in foods: implications for Diabetics	
<b>Stamford</b>		<b>The Catholic Academy of Stamford</b>	
4010 PT	Robert Grande Perry Kounavelis	The Egg Drop	
5010 P7	Eden Cheung	Battle of the Bubbles	
5517 P8	Lucas Duarte	Sensors and Robotics	
5533 P8	Morgan Vossler	Optical Illusions Infinity Mirror	
5536 P8	Sierra Wood	How Do Airplanes Fly?: Bernoulli's Principle	
5555 P8	Andrew Buchkowski	Maglev Magnetism	
<b>Storrs</b>		<b>E.O. Smith High School</b>	
6006 PS	Alexander Chandy	Finding the Ideal Baseball Swing Path through Calculus and Physics	
<b>Stratford</b>		<b>St. Mark School</b>	
2032 L7	Skyler Johansen	Don't Rain on my Radish (How does acid rain affect the growth of radishes?)	
5022 P7	John Pastorok	Dirty Composition	
5032 P7	Elizabeth Long	Rust-Acidity (How do different levels of acid rain affect some kinds of iron?)	
5513 P8	Julia Sciallo	Lights, Camera, Refraction	
5540 P8	Kaitlyn Szczepanski	Are you a 'fan' of wind turbines?	
5561 P8	Michael LaMonica IV	Stealthy Shapes	
<b>Suffield</b>		<b>Suffield High School</b>	
3008 LS	Leroy Lawson	The Effects of Videos Games On Problem Solving Skills	
3021 LS	John Dion	Naturally Enhancing Plants' Yield and Growth Rate	
3029 LS	Brooke Tillotson	How Water Chemistry Varies Spatially Across Congamond Lake	
3071 LS	Lizbeth Serrano	A Novel Approach To Holistic Medicine For Dog Allergies	
3091 LS	Aidan Werenski	Plant Growth Using Vitamin Induced Water	
3099 LS	Laila Lawson	The relationship between altitudes and the incidence of skin cancer	
3110 LS	Robert Mueller	New Findings: Optimal Temperature for Quail Egg Production as a Function of Ambient Temperature	
3502 LST	Madison Gadowski Jessica Wessner	The Effects Sodium Chloride (Road Salt) has on the Surrounding Environment When Used as an Ice Melting Agent.	
3504 LST	Abigail Sperrazza Jenna Uzdarwin	Astrology in Pop Culture and history. Is it accurate?	
3507 LST	Ekaterina Fraser Shreedula Balakrishnan	The Application of Magnetotactic Bacteria for the Efficient Production of Energy	

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3513 LST	Joseph Gleason Samatar Wehelie	<b>Saving the Honey Bee: Designing a Revolutionary Pollen Mineral Analysis Kit for Beekeepers.</b>
3529 LST	Bruce Wilson Kyle Englander Michael Sattan	<b>The Impact of Physical Activity on Human Reaction Time.</b>
3533 LST	Charles Rose Monica van Ginkel	<b>The applying the understanding of running for the improvement of runners.</b>
6002 PS	SreeKeerthi	<b>Unforeseen Impacts of Cosmic Radiation on the Species of Earth</b>
6056 PS	Zachariah Service	<b>Stopping an allergic reaction before it starts: A small mass spectrometer to detect peanuts within foods for those with a peanut allergy.</b>
6060 PS	Akshita Jindal	<b>A Novel Health Monitoring System</b>
6089 PS	Ziad Hassan	<b>Redesigning the Prescription Bottle to Stem the Opioid Epidemic</b>
<b>Suffield Suffield Middle School</b>		
2502 L8	Isabella Jiang	<b>The Effect of Musicianship to Speed of Learning Languages</b>
4001 PT	John-Henry Burke Alexander Litvak	<b>Creating Electricity using Gravity</b>
4013 PT	Aarya Vasantlal Avie Vasantlal	<b>How does temperature affect crystal growth?</b>
4019 PT	Ayush Mehta Cole Cutler Jack Shanks	<b>Converting Sound Energy into an Electrical Energy</b>
<b>Trumbull Christian Heritage School</b>		
5510 P8	Alec Mota	<b>Aqua-Safe: Helping the World, One Bucket at a Time</b>
5516 P8	Natania Muriel	<b>The Effect of Salt on the Power Output of a Microbial Fuel Cell</b>
5531 P8	Maxwell Barbagallo	<b>D.I.Y. Hovercraft: Lift and Propulsion</b>
5549 P8	Nathan Nagel	<b>The Effect of Temperature on Lift Decay in Helium Balloons</b>
6020 PS	Miles Meade	<b>The Design of a Self-Funding Heating System</b>
6054 PS	Ranita Muriel	<b>Carbon Emission-Free Power Generation Using Wave Energy and a Robust Generator</b>
6085 PS	Daniel Colgate	<b>Field Testing for Practical Application of OER Catalyst Nickel-Iron Oxide in Extraterrestrial and Underwater Areas</b>
6087 PS	William Rojas	<b>The Effectiveness of Different Media of Air Gap Hacking Over Distance</b>
<b>Trumbull St. Joseph High School</b>		
6034 PS	James Bove	<b>Measuring Stellar Parallax of 61 Cygni</b>
<b>Trumbull Trumbull High School</b>		
3050 LS	Howard Qian	<b>The effect of outside life on school life.</b>
3094 LS	Evani Dalal	<b>Do GMO-Free Products Have GMOs?</b>
6100 PS	Arnav Srivastava	<b>Impact of Submerged Barrier Resistance on Internal Waves</b>
<b>Wallingford Choate Rosemary Hall</b>		
3549 LST	Medha Illindala Camille Grant Isabella Capuano	<b>An Analyzation of the Effect of Wolbachia Does to an Arthropod</b>
6067 PS	Se Ri Lee	<b>Noise Removal Analysis Using Proposed LPF(Low Pass Filter) and Windows</b>
<b>Waterbury Kaynor Tech - Green STEP</b>		
6509 PST	Conway McBride Jayden Edwards	<b>Solar-Powered Geothermal Cooling System</b>
<b>Waterbury Our Lady of Mt. Carmel School</b>		
1010 LT	Markela Karameta Sonila Pasholi	<b>Will It Preserve?</b>



Proj#/Category	Students/Project Title	
4003 PT	Logan Pilla Seth Glinsky	Battery Breakdown
<b>Waterford</b>	<b>Waterford High School</b>	
3096 LS	Sophie Wang	Development of a Novel Copepod-Based Mosquito Ovitrap
<b>West Hartford</b>	<b>Hebrew High School of New England</b>	
3020 LS	Batya Koenigsberg	The Effect of Coffee Extracts on Viable Cells within Staphylococcus Epidermidis Biofilm Colonies
<b>West Hartford</b>	<b>King Philip Middle School</b>	
4023 PT	Alexander Belsham Andrew Belsham	Environmental monitoring robot that uses temperature and ammonia level sensors to measure the environment in the area around the robot.
5512 P8	Theodore Zhang	Slip Hazard Alarm Robot H2OhNoBot
5537 P8	Andrew Sauer	The search for a fuel-efficient jetliner: Testing three airfoils in a wind tunnel.
<b>West Hartford</b>	<b>St. Brigid - St. Augustine Partnership</b>	
1011 LT	Sejmora Thomas Victoria Mealha	Music vs. Mind: Music affects the Brain
2004 L7	Miranda Estrada	How do acids and bases affect enzymes ?
2007 L7	Faith Saunders	Biomechanics of Dance
<b>West Hartford</b>	<b>St. Timothy Middle School</b>	
2528 L8	Grace Flynn	Saving Crops from Cold Snaps – The Effect of Gamma-Aminobutyric Acid (GABA) on Freeze Tolerance in Wheatgrass
4011 PT	Connor Dainiak Griffin Oshaughnessy	Surviving the Cold!
5002 P7	Thomas Baldini	Pineapple Punch
5511 P8	Brooke Barry	Don't Rock The Boat
<b>Weston</b>	<b>Weston Middle School</b>	
1004 LT	Lecia Sun Brynne McGee	How Can Climate Change Affect the Rate of Evolution on Baker's Yeast's
1008 LT	Nicole Satanovsky Konstantina Gotouhidis	Insecticide or Suicide? Creating and Comparing Natural and Unnatural Insecticides
2518 L8	Ava Cho	How Far has Humanity Come from Instinct?
2523 L8	Luca O'Neil	How are different diets more or less effective for weight loss and lowering the risk of heart disease?
<b>Westport</b>	<b>Staples High School</b>	
3062 LS	Aniruddha Murali	Using a Machine Learning Algorithm to Predict if a Breast Tumor is Malignant or Benign
3104 LS	Jory Teltser	Study on the Effect of Weather Patterns and Events on the Nocturnal Migration of Birds
6065 PS	Joshua Zhang	The Effect of MN250 on the Removal of Sulfonamide Antibiotics in Wastewater
6081 PS	Juliana Hopper	The Effect of EsMCsu1, from Eutrema Salsugineum, on Transformed Arabidopsis Related to Drought Resistance
<b>Wethersfield</b>	<b>Wethersfield High School</b>	
6519 PST	Eric Scheuermann Chase Miller Kenny Thayer	The Effect of Environmental Conditions on the Breakdown of Polyester
<b>Wilton</b>	<b>Middlebrook School</b>	
2533 L8	Krihika Natarajan	Metabolic Touch
5003 P7	Sebastien Shaw	Power Walking with Piezoelectricity
5017 P7	Varun Vadhera	The Buzzing Eye - Helping The Blind (school submitted title - Supersonic Blind Helper)
5558 P8	Jessica Wu	Mirror-cle Solar Panels

Proj#/Category	Students/Project Title
<b>Wilton</b>	<b>Wilton High School</b>
3045 LS	Anika Bhagavatula Detecting Phosphorous and Nitrogen Contaminants using CNT technology to predict Harmful Algal Blooms
<b>Windsor</b>	<b>Academy of Aerospace and</b>
3025 LS	Rebecca Nowinski The Effect of Dopamine on Zebrafish Embryo Social and Biological Development
3044 LS	Arshad Bhura Investigation of the Effects of Weak Electric Fields on Bacillus Subtilis Biofilm Formation and Growth
3055 LS	Ondrea Kerr The Effect of Biotin (Vitamin H) on Regeneration in Planarian
3107 LS	Rishika Maitra The Effect of Overexpression of CREB-Binding Protein (CBP) on Gene Expression of Tumor Suppressor p53 in Mus musculus Breast Carcinoma (BRCA) Cells
3518 LST	Tanu Singh Dharini Jasti The Intensity of Marine Bioluminescent Organisms in Manipulated Environments
3548 LST	Anthony Antony Jonathan Spafford Comparative Analysis of the Effects of Different Dietary Supplements on Breast Cancer Cells
6066 PS	Keshav Vedula Undulated Leading-Edge Airfoils in Low to Medium Reynolds Number Regime
6501 PST	Srikar Godilla Cristian Rodriguez Effect of Experimental Parameters on Forming Prince Rupert's Drops for Maximum Strength and Toughness.
6516 PST	Chris Rinaldi Jean Pasato Vishakh Talanki The Effects of Positioning of Micro Vertical Axis Wind Turbines in a Network on Efficiency and Power Output
6528 PST	Gianna Guzzo Andrea Lacunza Effect of the Size, Shape and Spatial Distribution of the Second Phase Polymer in a 3D Printed Polymer/Polymer Composite on the Mechanical Properties of the Material.
6533 PST	Nicolas McMahon Emily Ngo Combinations of Polyethylene Glycol and Silica Nanoparticles as a Dilatant on Shock Absorption and Unequal Shear Transfer Rate
<b>Windsor</b>	<b>Greater Hartford Academy of Math and</b>
3007 LS	Alexandra Smith A Metanalysis of Single Nucleotide Polymorphisms in the BRCA1 and BRCA2 Genes of Breast Cancer Patients
3023 LS	Sreenidhi Nair Human-Human Interface: The Effect of Using Different Nerves on Involuntary Movement.
3080 LS	Ashley Shafran The Effect of Classical Conditioning on Learning and Memory of Planaria after Regeneration
3523 LST	Malavika Madan Rahul Nimmagadda The Effect of Turmeric on the Gene Expression of Breast Cancer Cells in Mice
6517 PST	Michael Stefano Jacob Manente Effect of Adding Reclaimed Polylactic Acid (PLA) to Virgin PLA on the Mechanical Properties
6530 PST	Alexa Wilson Preksha Gupta Sana Kasmani Effect of Increasing the Poly(ethylene) Oxide in Bombyx mori Silk Fibroin on Mechanical Properties of the Polymer Blend Systems
<b>Windsor</b>	<b>Madina Academy</b>
1009 LT	Ahmad Zoghol Amer Kabatilo Zain Kabatilo Investigating short-term effect of different video games on the body.
2009 L7	Abdulmalik Ajdinoski An Easy and Economic Way of Filtering Salt Water
3086 LS	Ruqayyah Paine The Effect of the Consumption of Organic vs. Non-Organic Lactuca Sativa on the Growth and Health of Cynthia Caterpillars
6518 PST	Ahmad Mohammed Muaz Sharaf Samir Khan Using Wasted Heat from Hot Showers to Recycle Energy
6523 PST	Al-Yaman Zoghol Ahmed Zeinalabdin Harnessing ocean wave kinetic energy in an eco-friendly way to generate electricity applying Faraday's law of induction
<b>Windsor</b>	<b>St. Gabriel School</b>
2539 L8	Emily Quinn Erosion Commotion

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5016 P7	Michael Sponzo Marble Roller Coaster How Much Height to Loop the Loop?
5029 P7	Katherine Wilkos How Safe Is Your Water?
5519 P8	Timothy Paradise Capillary Action
<b>Windsor</b>	<b>The Loomis Chaffee School</b>
3005 LS	Julianna Lee Combating Food Deserts with Urban Agriculture: The Effect of Greenhouse Conditions on Seed Production and Bean Yield
6018 PS	Aresh Pourkavoos The Consonance of Alternative Tuning Systems
6071 PS	Jae Hyung Lee A Study on the Alternative Space Filling Curve
6103 PS	Nezir Alic Wave-bands, Bandwidths, and Time Durations of EMIC Waves in the Inner Magnetosphere
<b>Woodbridge</b>	<b>Amity Regional High School</b>
3011 LS	Ameya Menta The effects of multiple blood meals and apoptosis on midgut basal lamina integrity in <i>Aedes aegypti</i> mosquitoes
3067 LS	Ulada Dubovik The Effect of Overexpression of Mir-24 on Cell Mortality
3074 LS	Anthony Tom Diagnosis of breast cancer based on native tissue fluorescence using wide-field multispectral fluorescence imaging
3082 LS	Ningxin Luo Investigating the Role of Sodium Chloride on Pathogenic B Cell Function in Multiple Sclerosis
3085 LS	Agrani Dixit Desmosterol Mediated Anti-inflammatory Effects in Atherogenesis are Linked to Inflammasome Activation
3090 LS	Tracy Lu The Effect of Different Melanoma Treatments on Surface Protein Expression of Innate Immune System Cells
3111 LS	Natalie Prinz The Effect of Sea Level Rise and Salt Marsh Change on the Population of <i>Uca Pugnax</i>
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