Date: 3/2/2017

## **Projects**

2017



## Connecticut Science & Engineering Fair Quinnipiac University March 14 - 18, 2017

Proj#/Category	Students/Project Title
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Avon		Avon High School	
6020	PS	Humza Zaidi	Fluorescent Nanofiber Matrices as Extracellular Matrix Tissue Substitutes
6529	PST	Jaya Hari Dheepa Hari	Virtual Forensics Chemical Lab Simulation App (for Liquids, Metals, and Nonmeta Solids)
Avon		Talcott Mountain Academy	
2021	L7	Karan Kothari	Can Pseudomonas putida purify the air by biodegrading volatile organic compounds?
2026	L7	Grace Allen	The effect of music on memory
2029	L7	Connor Farquhar	The Effects Of Weather On Warblers in Pomfret Ct
2502	L8	Kathleen Casey	The Effects of Smell Loss From Perfume Based on Age
2530	L8	Elise Casey	Bacterial Growth
5539	P8	Aresh Pourkavoos	Machine Learning for Text Categorization
Baltic		Sayles School	
5041	P7	Abigail Staggs	Wave Generated Beach Erosion
Bethany		Amity Reg Middle School - Betha	any
1003	LT	Juliette Zito Eesha Acharya	Test Methods
4001	PT	Wendy Zhang Claire Yuan	Using Flocculation to Extract Chromium 6 From Water
4004	PT	Christopher Hill Benjamin Lee	Water Turbine
4007	PT	Evan Gorelick Peter Savelyev	Plantaid
4010	PT	Aamnah Malik Kathleen Inclima	Using Nanotechnology to Clean Oil Spills
4021	PT	Kabir Khwaja Samuel Green	The Energy Band
4025	PT	William Livesay Joshua Feuerstein Arnav Paliwal	The Clean Drain
5519	P8	Weiss Yuan	Extinguish-Bot
5525	P8	Jonathan Fischman	Waterbot
5559	P8	Shyam Viswanathan	Vision Shoe
5564	P8	Nikhil Mali	Pen-nik
5569	P8	Cameron Luciano	Injur-knee
5574	P8	Hanna Skiba	How WiFi Affects the Growth of Plants
Bethel		Bethel High School	
3029	LS	Jessica MacIntyre	Raynaud's Phenomenon Noninvasive Treatment Through Natural Breathing and Meditation Techniques
3036	LS	Henry Valle	4,2-Dichlorophenoxyacetic acids influence on production of soft tissue sarcoma within Rodent Skeletal muscle.
3066	LS	Brynne Bosworth	Maximizing Energy Production from MudWatts
6014	PS	Daniel Islam	The Performance of a Graphene anode battery in a Remote Control Car
6086	PS	Rachel Salvador	Synthetic Turf Infill Engineering
6092	PS	Pavitra Rao Makarla	Methane Reduction in Hydropower Plants

Proj#/0	Category	Students/Project Title	
Bethel		St. Mary School	
1010	LT	Joseph Campolo Anthony Campolo	Food Energy - Calorimeter
2507	L8	Lola Taylor	Hydroponics vs Soil Gardening
5015	P7	Ricky Lawlor	Shapes of Parachutes
5018	P7	Caroline Tucker	Building A Smarter Gutter
5506	P8	Grace Garvey	Solar Cells
5542	P8	Anna Meehan	Wind Turbines
5552	P8	Judith Apotheker	Name Brand vs. Value Brand vs. Homemade
Bolton		Bolton High School	
6017	PS	Elizabeth Sansevero	An Investigation of Factors Affecting Catalytic Functions.
Bozrah		Fields Memorial School	
5001	P7	Lucas Santo	Building Tesla Coils
5004	<b>P</b> 7	Morgan Tainter	Environmental Monitoring System for Dog Safety
5008	<b>P</b> 7	Elijah Ramthun	Orb Characteristics and Containment
5535	P8	Kyra Adcock	Password Security; How Easily Can Your Password Be Hacked? What Can You Do to Make it Safer?
Bridgepor	t	Black Rock School	
5572	P8	Jayvyn Kerr	How Far Will It Stretch?
Bridgepor	t	Blackham School	
4023	PT	Guilherme Pinto Christopher Schramm	How Does the Temperature of a Tennis Ball Affect the Height of It's Bounce?
Bridgepor	t	Bridgeport Military Academy	
3534	LST	Kiara Corporan Suany Ulloa	Does Makeup Grow on Bacteria?
6068	PS	Evanna Dias	Fire Resistance
Bridgepor	t	Bridgeport Regional Aquaculture	
3068	LS	Amanda Hernandez	Predicting the Genomic Pathways of Adaptation In Spartina alterniflora Salt Tolerance Proteins LSD1, EDS1, and PAD4 in Response to Sea Level Rises Via Phylogenetic Trees
3072	LS	Emily Luciano	Developing a Minimally Invasive Tumor Treatment Via Focalized Ultrasonic Frequencies
3076	LS	Cassidy Fawcett	The efficacy of topical ascorbic acid as an inhibitor to mold and bacteria growth
3094	LS	Brian Tormey	The Application of Pyrethrin as an Organic Systemic Insecticide for Acheta domestica
3098	LS	Tomas Koeck	Developing a Spatial Model of Invasive Spread in Response to Climate Change
3101	LS	Connor Anderson	Determination of Gut Granule Function in Caenorhabditis elegans via Chemotaxis Assay of Anthranillic Acid
3129	LS	Daniel Schaefer	Utilizing a Freshwater Bioreactor as an Effective Carbon Dioxide Sequestration Technique
3137	LS	Kyle Rosenfeld	The Use of a Hydroxybenzene Group Variant, Grapefruit Seed Extract, as an Alternative Natural Pesticide for Contemporary Chemicals in Modern Agriculture
6038		Paul Santandrea	The Application of Ferrofluid paired with Neodymium Rare Earth Magnets to Reduce Friction.
6078	PS	Koe Tsutsumi	Evaluation of BMG via tensile strength and hardness after exposure to acidic, basic, and saline conditions
Bridgepor	t	Bridgeport Regional Aquaculture	
3062	LS	Simone DiBella	The antimicrobial efficacy of probiotics with Homerus americanus (American Lobster) exoskeleton fauna to control the impacts related to Shell Rot Disease
3540	LST	Damon Sherwood Juan Alvarez	Determination of light Wave Length Effect on Gracilaria tikvahiae Growth Rate

Proj#/0	Category	Students/Project Title	
6024	PS	Cole Stearns	Investigating the Efficacy of Magnesium Nitrate as a Viable Solvent in the Synthesis of 2,5-Dimethylfuran Biofuel
6028	PS	Zachary Gottlieb	Development of an Economical Single Stream Recovery Protocol of LiCoO2 Via Biological Sequestration
6517	PST	Rachel Roca	A Novel High Performance Liquid Chromatography Protocol to Investigate the Analgesic Role of Salicylic Acid and Other Bioactive Components found in
		Julia Lawlor	Traditional Chinese Medicine
Bridgepor	t	Fairchild Wheeler Magnet High Sc	hool
3116	LS	Jordan Chisholm	Studying Picture Quality: Evaluation of Pixels in Pictures Taken on the iPhone 7+ Camera, iPhone 6+ Camera and Snapchat Camera.
6003	PS	Steven Siveyer	AN INVESTIGATION INTO THE CAPABILITY OF GRAPHENE TO PRODUCE ELECTRICITY DURING RAINSTORMS AS AN ADDITION TO A TRADITIONAL SOLAR PANEL
6008	PS	Natanael Garcia	" I'm just saying you can do 'beta' "
6059	PS	Ezekiel Cruz	Most Powerful Wind Turbine Blades
6511	PST	Cecilia Merlo Praneeth Sundararajan	Will the type of Acidic Liquid Mix With Milk change the Durability of Plastic
6526	PST	Kenneth Wright	Using Programming to Solve Math Problems My Calculus Teacher Couldn't Solve
		Jada Worthy	
Bridgepor	t	High Horizons Magnet School	
2513	L8	Rebecca Abirached	Hydroponics vs. Fogponics
4019	PT	Joshua Green Jada Daley	Can you hear what the sound polluting?
4024	PT	Kayla Keddo	Sturdiest of Them All
		Dea'ja Jones	
Bridgepor	t	John Winthrop School	
5034	P7	Amanda Teixeira	Ready, Set, Blast Off!
Bridgepor	t	Multicultural Magnet School	
2030	L7	Angelica Joyner-Cross	Extracting Carbohydrates From Tubers
5032	P7	John Paul Atehortua	Natural Power
Bridgepor	t	Park City Magnet School	
5527	P8	Amir Alibali	hoverboards
Bridgepor	t	Park City Prep Charter School	
1013	LT	Leanna Hosten Joy Longwa	Acid rain vs. algae
2004	L7	Kourtney Payne	Mold? Food? Time
2010	L7	Jenifer Bonilla	How Does Microwave Radiation Affect Organisms?
2016	L7	Antonios Boudreau	Larva -B-Gone: A Safer Way To Eliminate The Threat of Zika and Other Mosquito Borne Diseases
2024	L7	Alyssa Hall	Artificial Turf
2517	L8	Monica Cardenas	Will It Decay Or Stay? (The decay of organic matter)
5007	<b>P</b> 7	Parker Savo	Cleaning Coins
5039	P7	Emily Ramirez	A Battery That Makes Cents
5516	P8	Danney Gibbs	Toothpaste (Does Brand Matter?)
		Hairo Vivas-Nava	Where is the paper airplane?
5558	P8		
5558 Bridgepor		Read School	
	t	Read School Brian Luna	How Does Fabric Softener Affect The Flammability Of Different Fabrics?
Bridgepor	t P8		How Does Fabric Softener Affect The Flammability Of Different Fabrics?

Proj#/	Category (	Students/Project Title	
Bridgepo	rt	Warren Harding High School	
3003	LS	Karim Alveranga	The Investigation of Electrolytes
Bristol		St. Paul Catholic High School	
6047	PS	Kamila Krawczuk	A Weather-Based Autonomous Rainwater Irrigation System
Canton		Canton High School	
6021	PS	Devin Kadis	Lending a Hand to Those Who Need it Most.
6055	PS	Noah O'Leary	So You Want to be a Rock Climber?
6062	PS	Ethan Porter	An investigation of the structural integrity of wood species used for the tops of acoustic guitars.
6075	PS	Adeline Obrzut	The Gravitational Effect Of The Galilean Satellites On The Shrinkage Of The Great Red Spot
6100	PS	Gabriel Ortiz	A Closer Look At Petroleum: Our World's Energy
Cheshire		Dodd Middle School	
5570	P8	Medha Illindala	"Organic Waste : a Clean Source of a Energy"
Cheshire		St. Bridget School	
2014	L7	Kavin Kathir	Which Bioplastic is more Elastic
2520	L8	BriAnna McConnell	Do the Eyes Have It?
Danbury		Abbott Technical High School	
3536	LST	Kayla Ludovicy Cicily Telesco	How much do we need to dilute the solution for it to still perm eyelashes?
6056	PS	Alexandre Rodrigues	Can we make solar panels more efficient using mirrors, yet protect them from detrimental radiation and heat concentration?
Danbury		Danbury High School	
3007	LS	Bradley Kerr	Control of Mosquitoes Causing the Zika Virus and Dengue Fever Using Entomopathogenic Nematodes and Fungi to Reduce the Threat of Disease.
3011	LS	Sarah Johnson	The Effect of Plasmid on the Transformation Efficiency of Component Escherichia Coli (E. coli)
Danbury		Immaculate High School	
6050	PS	Nolan Ames	Liquid Reflectiveness and its effect on temperature
Danbury		St. Gregory the Great School	
1004	LT	Gianna Casturani Caroline Merritt Giovanna Riccio-Weisse	Strawberry vs Aloe
1012	LT	Aiden Coleman Joseph Wilson	Clean! Chemical Free!Protect your family!
2506	L8	Gianna Fanelli	Are You Throwing Away Your Money?
4008	PT	Lindsay Ward Olivia Halas	Energizing Electrolytes
4015	PT	Thomas Fahey Eric McNamara	The Effect of Temperature on Solar Cells
4022	PT	Stephanie Antonios Courtney- Rae McCormack Cassandra Logan	Do Antennas Love Geometry?
5003	P7	Anna Flaherty	Wind Energy? I'm a Big Fan!
5560	P8	Christopher Mezzetta	How does fabric softener affect the flammability of different fabrics
Danbury		St. Joseph School	
1011	LT	Matthew Riggs Steven Soto	Which Household or Home-Made Cleaner Best Prevents Bacteria Growth.
2003	L7	Tatiana Amaral	Baking Soda Experiment
2007	L7	Conor O'Keefe	The Effects of X-ray Radiation on Yeast

Proj#/	Category	Students/Project Title	
2538	L8	Robert Fontenelli	How does the sugar content of a banana changeover time?
4003	PT	Nora Yastremski Abby Giansiracusa	Apple Oxidation
5019	<b>P</b> 7	Bronwyn Hyland	Eggceptional Geodes: An Eggsperiment
5030	P7	Chase Stanton	LED Light Bulbs: A Bright Idea?
5515	P8	Elias Haddad	Efficient Non-Toxic Dye-Sensitized Solar Cells
5561	P8	Shelby Weed	SINGING WINE GLASSES AND BOTTLES
5563	P8	Austin Bowling	Dam Water Reservoir Height and Hydroelectric Power Production
Danbury		Westside Middle School Academy	
2033	L7	Khushi Parikh	Pharmaceuticals In Our Water: How Can These Hazardous Chemicals Be Filtered?
2514	L8	Jason Campisi	Bacteria Morphology and Concentration in yogurt
2532	L8	Carter Densk	How does the ratio of gala apple DNA to winesap apple DNA increase the speed the plants grow at?
2537	L8	Lasyapriya Josyula	Testing CNT (Carbon Nanotubes) to filter E. coli Infected Water Samples
5025	<b>P</b> 7	Cassandra Plank Pinho	A study on soil product following bio degradation of Styrofoam by tenebrio
5503	P8	Jordan Lema	Examining the impact of window moisture on the strength of a wifi signal.
5513	P8	Ava Williams	A study on the most effective method for the extraction of essential oil from citrus.
5531	P8	Sahana Chinthak	The Effects of Different Flours on the Breaking Point and Decomposition Rate of an Edible Spoon.
5538	P8	Nicholas Raslavsky	Creating an Affordable Homemade Meter to Measure Outdoor Levels of Carbon Dioxide
5568	P8	Gryffin Syme	Optimizing Fin Design For Compressed Air Water Rockets
Danbury		Wooster School	
6011	PS	Daniel Michael	A Novel Approach for Assessing Alzheimer's Disease Risk through Natural Language Processing-Based Analysis of Aphasic Patterns
Darien		Darien High School	
3018	LS	Caleigh Morr	IgM Expands Regulatory T Cells and Demonstrates Therapeutic Potential for Type Diabetes
3026	LS	Catherine Gorey	Cognitive Strengths and Weaknesses of Adults with Reading Disabilities
3047	LS	William Brandon	The Role of Rigosertib Treatment in the Expression and Localization of RASSF1 in RASSF1 Transfected Cancer Cells
3059	LS	Claire Borecki	Service Use in Autism Spectrum Disorder: Limits on and Challenges of Health Services and Service Dissatisfaction among Adults with Autism
3067	LS	Katherine Cunningham	Foramen Magnum and Other Cranial Measurements in Ostriches and Implications for Sex Determination in Dinosaurs
3095	LS	Ari Singer-Freeman	The effect of elevated atmospheric carbon dioxide levels on body size in Drosophila melanogaster
3107	LS	Johnathan Stimpson	Measuring the Effect of Stock Market Closing Prices on Performance of Incumbent or Incumbent Party Presidential Candidates (2004, 2008, & 2012 Elections) Using Time Series Analysis
3140	LS	Will Granath	Developing a Robust Phylogeny of Xyridaceae and Closely Related Families
3147	LS	Colin Banks	Cloning of the IRES Gene for Targeted Viral Therapy
6009	PS	Ariel Gianukakis	The Efficacy of Lichens as Bioindicators of Air Pollution
6031	PS	Andrew Benz	Determining the Optimal Implementation for Secure Multiparty Computation of the Logistic Function
6035	PS	Escher Campanella	A Radio Transceiver-Based Wearable Device to Help Visually Impaired Users Avoid Vehicles
6072	PS	Courtney Lowe	Finding An Efficient Scalable Gray Water Bioremediation Treatment System
6087	PS	Samuel Pfrommer	Determining Salient Control Decisions of the Actuated Spring Loaded Inverted Pendulum Traversing Slippery Terrain Using a Sliding Mass Model
6094	PS	Brendan Berrigan	Analyzing the Accuracy of a Two Queue Simulation of a Polling Station in Modeling Voter Wait Times
East Hartf	ord	St. Christopher School	
5502	P8	Isaiah Albert	Rusty Steel: How Acids Affect the Rate of Corrosion

Proj#/	Category	Students/Project Title	
5567	P8	Alexander Notis	Battery Power
Enfield		St. Martha School	
5573	P8	Matthew Emerson	Solar Producing in the Polar
Fairfield		Fairfield College Preparatory School	ol
3030	LS	Junlin Mo	Bio-Desalination Using Halophyte Transpiration to Create a Sustainable Clean Water Source
3126	LS	Jonathan Siveyer	An investigation into the use of fruit peel filters to reduce the level of water contamination.
6045	PS	Haoxiang Zhang	Deciphering emotions through a voice's physical characteristics
6054	PS	Hanxuan Mo	The Application of Object Tracking in Surgery Robotics
6525	PST	Haochen He Daqin Lin Shu Guo	Energy conservation street lamp
Fairfield		Fairfield Ludlowe High School	
6036	PS	Srihita Mediboina	Does Industry Concentration Affect Variability of Human Capital Investment?
Fairfield		Notre Dame Catholic High School	
3005	LS	Benjamin Clark	Bioassay investigation of organic and chemical fertilizers with Daphnia and Tardigrades
Farmingto	n	Irving A. Robbins Middle School	
5530	P8	Angela Sadlowski	Making concrete more energy efficient and lightweight.
Fishers Is	land	Fishers Island School	
3510	LST	Charles Snyder Thaddeus Allen	Biorock: Calcium Carbonate Deposition and Oyster growth in the Fishers Island Sound
6039	PS	Caroline Toldo	Light, pH, and Salinity's effect on Bioluminesense Dinoflagellates
6081	PS	Natalie Vail	Wine Glasses and What Affects Their Resonant Frequency
Glastonbu	ıry	Glastonbury High School	
3023	LS	Soham Kale	INTERACTION BETWEEN HDM2 AND THE UBL3 DOMAIN OF USP7
3035	LS	Samantha Chow	IDENTIFYING SMALL MOLECULE TRANSLESION SYNTHESIS PATHWAY INHIBITORS TARGETING REV1-CT PROTEIN-PROTEIN INTERACTION
3042	LS	Samarth Venkata Menta	Genomic Analysis of Osteosarcoma to Identify Novel Key Regulatory Pathways in Tumorigenesis
3052	LS	Ronak Mahatme	Flu Induced Alterations In Muscle Cytokine Expression Due To Aging
3069	LS	Reshana Homma	Effect of Regulation of Autophagy on the Hedgehog Signaling Pathway in Paget's Disease of the Bone
3083	LS	Mitchell Johnson	Analysis of Prey Composition in Ninespine Stickleback (Pungitius pungitius) Infected With Cestode Parasite (Schistocephalus pungitii)
3100	LS	Athulya Narayanan	Natural antimicrobials: Alternatives to antibiotics in the control of ear infections
3121	LS	Jamie Cheung	Enzymatic Reactions at Nanoparticle surfaces: Studying the dependence of substrate accessibility on the efficiency of enzymatic ligation
3150	LS	Katherine Vartenigian	A New Solution for Prevention of Symptoms of Lactose Intolerance
6012	PS	Thomas Ersevim	PROPERTIES OF POTENTIAL REGULATED ION CHANNELS
6066	PS	Niyati Hora	Correlation of CTNNB1 Gene and Ossifying Fibroma (OF)
6069	PS	Tamashi Hettiarachchi	THE DESIGN AND SYNTHESIS OF [Ru(tBu -tpy)(5-methyl-2-(pyridin-2-yl)-4,5-dihydrooxazole)Cl]PF AND ITS EFFECT ON CO, REDUCTION
6085	PS	Danielle Cai	Functionalization of Gold Nanoparticles with various Amino Acids under Different pH Environment
Greens Fa	ırms	Greens Farms Academy	
3037	LS	Brynley Close	The Effect of Beta- Amyloid Proteins in Fighting Off Infection in a C. Elegan Model with a Green Fluorescent Protein Detection Method in Correlation with Alzheimer's Disease
3050	LS	Reed Bingham	The Effect of Sleep Deprivation on Verbal and Visual Memory Retention in High School Adolescents

	Catego	·	
3070	LS	Luke Duffy	Using a 3-D printed intramuscular auto-injector to minimize costs for administerin huBuChE and pharmaceutical grade drugs to counteract nerve agent poisoning
3113	LS	Anish Kosanam	Anticorrosive Coatings on AZ31 Magnesium Alloy to Reduce Degradation Rate fo Metallic Medical Implants
3136	LS	Robert Marcus	Improvements on design of biologically inspired modular prosthetics for general use.
6061	PS	Edward Lopez-Wortman	Robotic Applications for Direct Formic Acid Fuel Cells
6076	PS	Charles Thompson	Designing and Implementing a Flexible Support System for the Finger Injury Prevention in High-Impact Sports and Applications
reenwicl	h	Brunswick School	
3015	LS	Asher Porphy	An Investigation of Natural Alternatives to Chlorine When Treating Microbial-Contaminated Water
3040	LS	Jack Driscoll	An Investigation of Halophilic Microbes to Bio-remediate Brine Backflow in Soil Adjacent to Hydraulic Fracking Wells
3048	LS	Thomas Kimberlin	Food Recycler
3056	LS	Timothy Saunders	Cellular Cultivation Matrix Created from Collagen Found in Starfish
3063	LS	Matthew Pillari	Using Electrical Current as an Antimicrobial
3513	LST	Chris Burdick Greyson Wolfram Matt Restieri	Analysis of Environmental Stress: The effect on Restriction Enzyme Analysis of Asterina DNA
3525	LST	Alberto Delgado Ryan Mulshine	Methylmercury concentrations in Fish Tissue: A comparative analysis of Long Island Sound v. the Atlantic Ocean
3542	LST	Thacher Scannell Avi Mukherjee	Human fingerprints and Gecko Setae: A fusion of configurations to create a super grip, non-slip surface
6034	PS	William George	The Concept of Foiling
6044	PS	Wesley Peisch	Optimizing Efficiency of Long Distance Tube-And-Pod-Based Low Friction Transportation Systems
6083	PS	Edward Camel	Flow Rate vs. Hydroelectric Kilowatts Produced: A novel approach using Pelton wheels and land-based turbines in an effort to preserve surrounding ecosystems
6502	PST	Matthew Jacobson Nick Saah	An Investigation of Conductive Graphene Dispersion: optimizing heat retention, water resistance, strength and durability of fabrics
6505	PST	Harold Barringer Thomas Foley	Using Piezoelectricity to Harness Energy into a Battery
reenwicl	h	Greenwich Catholic School	
2012	L7	Monica Marino	BITE BRIGHT a Natural Tooth Paste
4009	PT	Joshua DeSouza William Catalani	Take Cover
4028	PT	Gianna Saviano Sofina Tillman Singh	A Helping Hand
5002	P7	Patrick McHugh	Mass Maglev Manufacturing
reenwicl	h	Greenwich High School	
3010		Rahul Subramaniam	Rapid Colorimetric Field Monitoring System for Zika Virus in Mosquito Population via DNAzyme-Functionalized Gold Nanoparticles
3025	LS	Adam Roitman	Novel Active Immunization Approach for Preventing Substance Addiction via High Density Trypanosoma brucei Variant Surface Glycoprotein Arrays
3032	LS	Luca Barcelo	Crowd-Sourced Detection and Mapping of Nitrate Water Pollutants via a Mobile Web-Based Image Analysis System
3060	LS	William Yin	Cost-Effective, Portable Paper-Based Diagnosis of Alzheimer's Disease: Targeting Aβ Oligomers Using Curcumin-PLGA-Ceria Nanoconjugates as Artificial Biomarkers
3064	LS	Manuel Lopez	A New Fluorescent Assay relating to Palladium Blood Contaminants for Early Detection of Chagas
	LS	Manuel Carballo	Remediation of Beryllium Heavy Metal via Phaseolus vulgaris Hyperaccumulation
3074			

3109	Catego LS	ry Students/Project Title  Haley Stober	Platelet Membrane Coating Bio-interfacing of Pravastatin to Increase Removal of
0100		rialcy Glober	Arterial Plaque
3117	LS	Dante Grace Minichetti	Targeted Anticancer Properties of Honey Bee Melittin via Cell Surface Lipid Disruption
3125	LS	Sophia Chow	PDE-4 Inhibitor-Assisted Antibiotic Suppression of Borrelia Biofilm Growth for Treatment of Chronic Lyme
3127	LS	Collin Marino	A customizable, 9DB1 Deoxyribozyme based system for the controlled production of proteins via artificial logic on the molecular scale
6010	PS	Ethan Novek	Novel Low-Temperature Carbon Capture Using Aqueous Ammonia and Organic Solvents
6015	PS	Michelle Xiong	Development of a CNT/ZnO/TiO2 membrane for visible-light induced photocatalyti filtration of water-borne organic and bacterial pollutants
6033	PS	Michelle Woo	A Novel N-Doped Carbon Nanotube/Copper Electrode for the Reduction of CO2 to Biofuel
6040	PS	Alex Araki	Application of flexible PVDF nanofibrous membrane coated carbon fiber filter for tunable low cost solvent recyclying
6053	PS	Bennett Hawley	Renewable Energy Generation of a Hybridized Saltwater Electrochemical and Hydrokinetic Energy System
6063	PS	Agustina Stefani	Carbon Capture and Storage via Silver Nanoparticle Catalyzed Hydration of Carbo Dioxide
6074	PS	Steven Ma	Reliably Jammed Disk Packing: A Novel Feature of a Classic Geometry Problem
Groton		Sacred Heart School	
2027	L7	Rory Pelletier	The Effect of an Acidic Environment on Flower Seed Germination
			Relevance to Seed Dispersal by Animals
2031	L7	Hannah Langer	WHICH HEALTHY SNACK HAS THE MOST DNA?
2036	L7	Gretchen Irwin	Which drinks are worst for your teeth.
5011	P7	Emma Reilly	Bombs
5014	<b>P</b> 7	Craig Johnston	Can you get energy from fruit?
5022	<b>P</b> 7	Samuel Hammond	Strength of Electromagnets
5536	P8	Michael Luzzio	INDUCED LEVITATION AND MOVEMENT APPLYING LENZ'S LAW
5566	P8	Ariana Timmerman	Stains Away!
lamden		Hamden High School	
3017	LS	Danyelle Sydnor	What is Artificial Intelligence? Meta-analysis of the future of Artificial Intelligence. Predicting the future of Artificial Intelligence using previous data and history.
3028	LS	Rockib Uddin	The Future of Bio-Sand Filtration Systems: The Incorporation of Water Hyacinths (Eicchornia Crassipes) To Remove Arsenic in Contaminated Drinking Water
3092	LS	Zoe Bassett	Caffeine's Effect on Anxiety in Teens
3119	LS	Akshar Agarwal	PAD4 Inhibition: A Novel Treatment for Rheumatoid Arthritis
3134	LS	Linnea Sirch	The Effect of Music on Reading Comprehension and Mathematical Calculations
3149	LS	Aakshi Agarwal	Permanent Inactivation of the HIV Provirus via CRISPR Gene-Editing
lamden		Hamden Middle School	
5524	P8	Christina Macci	Oobleck
5545	P8	Conner Larocque	Constructing a CoreXY Dual Extrusion Fused Filament Fabrication Apparatus
lamden		Sacred Heart Academy	
3024	LS	Amy Ziobron	The Effects of Blue Light Technology on the Circadian Rhythms of Adolescents
3108	LS	Julianna Milidantri	Heat from Global Warming Affecting Bioluminescence in Pyrocystis fusiformis
3142	LS	Adalyn Schommer	Adherence Rates of Escherichia coli to Mono-filament, Multi-filament, and Barbed Sutures
3148	LS	Brisa Mendoza	An Athlete's Guide to Picking a Marker to Write on Their Skin with
6065	PS	Katie Gray	The Impact of Methyl Ester in Oil on Swimsuit Speed

## 2017 Connecticut Science & Engineering Fair

Proj#/	Category	Students/Project Title	
Hartford		Environmental Sciences Magnet S	chool
1005	LT	Alennie Cosme Keegan Miller	Vulnerability of a Human's Internal Rhythm
2002	L7	Yanayra Rosa	How many bacteria are on door knobs?
2009	L7	Noel Carrasquillo	Don't Get Hooked!
2013	L7	Shakiara Levest	how age affects memory
2020	L7	Nathan Hockley	pH Filtered Mussels
2501	L8	Connor Rego	Hydroponics: Floating or Flowing?
2509	L8	Tyler Schloss	Growin' in the Wind
2519	L8	Adela Lopez	Is That Enough Salt for You?
2534	L8	Natalie Reeves	The Effects of Food on Breeding Xiphophorus Hellerii
Hartford		Prince Technical High School	
3539	LST	Zukora Burke Fernanda Hernandez	Passive Solar Heating
6503	PST	Mariely Rodriguez Jeremy Montalvo	Bamboo brick
Hartford		Sport and Medical Sciences Acade	my
5508	P8	Madison Lee	Natural Plastic: Will Milk Plastic Substitutes Biodegrade Faster Than Commercial Plastics?
Hebron		Oei Homeschool	
5537	P8	John Oei	Developing a Prototype Atmospheric Water Generator System as a Clean, Safe and Sustainable Water Source
Kensingto	on	St. Paul School	
5012	P7	Jack Szeghy	It is Rocket Science
5031	P7	Meaghan Bertolami	The Unspillable Table Setting
5551	P8	MacKenzie Van Buren	Hot Socks
Lakeville		The Hotchkiss School	
6030	PS	Seouk Jun Kim	A New Fast Algorithm for Finding Eigenvalues in Vibrating Structures
Madison		Daniel Hand High School	
6025	PS	Ankita Roychoudhury	Identifying an environmentally friendly, sustainable process for capturing and converting CO2 to chemicals or reduction to carbon.
Madison		Walter Polson Middle School	
5571	P8	Aimee Chang	Multi-color CCD photometry of the variable star Delta Cephi using a home-built six inch reflecting telescope
Meriden		ACES Thomas Edison Middle Scho	pol
1007	LT	Dominic Ponce Elyssa West	Dancing Plants
1014	LT	Brianna Oliveras Mikaela Mitchell	Extracting DNA from fruit
2035	L7	Loren Tuck	Meat Eater
2541	L8	Shontai Cross	Well Water vs Tap Water and its Effect on Plant Growth
4005	PT	Tyler Curtiss Garrett Kronenberger	Paper Towel Strength
4011	PT	Madison Ehmka Chloe DiChello	To Sensor or Not to Sensor.
4014	PT	Ariana Alston Selena Galvan	Fats In Cooking Oils
4017	PT	Adriana Aponte Majda Adnane	The Heat Is On!

Proj#/	Category	Students/Project Title	
5005	<b>P</b> 7	Nicole Grabinski	Gravity and Air Resistance
5554	P8	Kaya Cook	The Relationship Between Aerodynamic Shape and Wind Drag
Meriden		St. Joseph School	
2015	L7	Dylan Gay	Secret Life of Trees on Sweet Birch Dr.
5021	<b>P</b> 7	Jake Ryder	Greasy Times and Triple Enzymes
5036	<b>P</b> 7	Ryan Killeen	What kind of water is the purest?
5512	P8	Khalia Hunt	What water bottle brand will keep water the coolest.
5526	P8	colin Ivers	Getting the most out of your batter
5550	P8	Natalie Camera	Suspense of the Popcorn
Middlebu	ry	Memorial Middle School	
2531	L8	Alexander Kennon	Does Intra-articular Hip Steroid Injection Increase The Rate of Infection With Subsequent Total Hip Replacement Surgery?
Middletov	vn	Vinal Technical High School	
3502	LST	Zackary Schrempp Patrick Wilson Jayden Amabile	Dry garden
6530	PST	Jarrett Nunes Christian Berry Bryan Fassett	eco-friendly insulation
Milford		Platt Technical High School	
6522	PST	Christian Haupt Christian Ramos	Project W- Domestic water recovery system
Monroe		St. Jude School	
2008	L7	Mia Sadlouskos	What Level of Acidity Is Best for Growing Simple Plants?
5518	P8	Francesco Thomas	Magnetic Power
New Brita	iin	CREC Academy of Science and	
6506	PST	Hardhik Kummamuru	Producing bioethanol from cellulose
New Brita	iin	Goodwin Technical High School	
6524	PST	Dante Marrone Lukas Schneider	The LD T.E.P System
6528	PST	Daniel Garcia Juan Ospina Daneirys Rivera	Solar powered survival Jacket with a organic type battery back up. to recharge or power a cell phone or LED lights.
New Cana	aan	St. Aloysius School	
4002	PT	Molly McAndrew Veronica Butler Helen Mahoney	Future of Filtration
4027	PT	Kaloyan Dimitrov Andrew Tully Alex Lanzillotti	Mars Exploration
New Have	en	Bruder Homeschool	
6051	PS	Ben Bruder	Design, build, and code a cellular/WiFi enabled smart thermostat using a microcontroller and a custom Android app to increase energy efficiency for homes and workplaces.
New Have	en	Common Ground High School	
3075	LS	Isobel Browe	I & H Equestrian: Boarding • Training • Rescue
New Have	n	Engineering Science University Ma	(A scale model of an Eco-Friendly Equestrian Facility)
		<u> </u>	· ·
2503	LO	Akash Cheela	Sodium Polyacrylate's affect on plant growth

Proj#/	Categor	y Students/Project Title	
2510	L8	Eva Heaphy	How do Different Types of Street Lights Impact Our Environment and What is the Safest Way to Illuminate Our Streets?
2515	L8	Sydney Johnson	What Type of Grass is the Most Beneficial in Arid Drought Environment?
2521	L8	Suchitha Misra	How does different pill substances affect a fruits physical appearance?
2528	L8	Rachna Vipparla	The affect of Roundup on GMO plants versus wild grown plants
2540	L8	Daniella Lebron	What Synthetic Leaf Material Soaked in a Chemical Absorbs CO2 the Best, and Hov Can We Use this to Advance Air Filtration
3114	LS	Prastik Mohanraj	A Novel Study on the Membrane Interactions of Bovine Alpha-Lactalbumin and Oleic Acid Complex on Tumor Cells to Induce Lysosomal Cell Apoptosis
3533	LST	Sumanth Kondapalli Tirth Patel	A Novel Approach Using Biochar in Sand Reactors to Accelerate Biodegradation o Naphthenic Acids in the Process of Bitumen Extraction via Oil Sands
5541	P8	Shankara Abbineni	How To Make A Water Filter That Will Be More Efficient
6005	PS	Lauren Low	A Novel Rapid Diagnostic Test for Zika Virus NS1 Protein using Nanoribbon Microfluidics
6097	PS	Arya Bairat	Developing a Novel Piezoelectric-Based Wind Energy Harvesting Device incorporating a Photocatalytic Graphene Paint Biodegradable Structure for applications in Low Wind Speed areas.
New Have	en	Hill Regional Career High Schoo	ol
3519	LST	Selma Abouneameh Ghadah Ali	Effect of Salinity on Brine Shrimp
6521	PST	Mike Olivares Rich Tran	Eco Friendly Batteries
New Have	n	St. Aedan-St. Brendan School	
2006		Jayden Alvarado	Strongth in numbers
			Strength in numbers
2019		Aaron Brogdon-Hill	Rethink your drink
5534		Justin Spell	Boyle's Law
5576		Amanda Simpson	Project CASH: Relational Effects of Cold, Acid, Starch and Heat
New Have	en	Wilbur Cross High School	
3013	LS	Sophie Edelstein	Formulation of Gelatin-Hyaluronic Acid Blend Cross-Linked Gels for Potential Tissue Applications: Cost-Effective, Patient Specific, Alternative Treatment of Labral Tears of the Hip
3151	LS	Maya Geradi	A study of circadian genetics and abiotic stress towards sustainable agriculture
New Have	en	Worthington Hooker Middle Sch	ool
1009	LT	Amelia Cox Sage Urban	Seaweed & Tsunamis
2034	L7	James Fields	Accelerating Plant Growth
2037	L7	Alena Gutierrez	Earth, Water, Flora: Reducing Soil Erosion
5514		Ellie Benoit	Are Stars Disappearing?
5533		Lily Walton	The Best Conductor
5549	P8	Alexandra Northrup	Great Balls of Fire Astrophotography Experiments
5556		Taivan Jargalan	A Change In the Winds
New Lond		Science and Technology Magne	
3019		Sara Guijarro-Sines	Correlations Between Make-up Applications and Bacteria Densities
3034		Morgan Slusarz	What is the Effect of Different Concentrations of Salinity on the Growth of Grass?
3034		K.D. Spencer Roman	Effective Nutrient Source on Growth of Mint Lettuce
	LS	<u> </u>	
3049		Aidan Desjardins	The Effect of Time on Bacteria Growth on Books
3054		Jack Nye	Effects of bromelain on raw ground beef.
3081	LS	Tessa Rock	Effectiveness of American Beach Grass Restoration
3087		Renandy Ledoux	The Effect of a Known Allelopathic Chemicals (Juglone) on Costal Marine Chlorophytes
3103	LS	Tori Johnston	Implicating the Tolerance of Glyphosate on Artemisia Vulgaris

Proj#/	Category	Students/Project Title	
3123	LS	Yasmin Aguilar	Bacterial Analysis of Kefir Products
3128	LS	Chloe Sherman-Watson	The Effect of Nutrient Concentration on Biomass Production in Cultured Marine Phytoplankton (Nannochloropsis sp.)
3133	LS	Sydney Ford	The Effect of Sun vs. Shade on the Decomposition Rate of Meat Through Carbon Dioxide Levels
3505	LST	Giselle Malloy Trent Matteau	The survivability of the salt marsh Melamaus bidentatus snails
3516	LST	Efrain Santiago III Aimee Riddick	The effects of salinity on marsh grass
3537	LST	Leon Bolle Aries Santiago	The Effects of Different Fertilizer Levels on the Development and Chlorophyll Density in Solanum Lycopersicum var. Cerasiforme (Cherry Tomato).
3541	LST	Xaryia Melendez Bria Fielding	The Effect Half and Full Day Illumination Periods Have On Aquaponical and Conventional Methods
6007	PS	Sean Flynn	Harnessing Perpetual Motion Machine to Generate "Free Energy"
6016	PS	Jacqueline Kral	Ideal Printing Conditions for Fused Deposition Modeling with ABS Filament
6508	PST	Thomas Statchen Zack Skrabacz	Role of Ambient Environmental Chemical Composition in the Creation of Precursors to Life
6519	PST	John Burnett Austin Huang	The Optimization of a Polycrystalline and Monocrystalline Solar Cell through Effective Cooling in the Form of a Heatsink Transfer System
lew Lond	lon	St. Joseph School	
5020	P7	Isabella Pero	What's Your Boiling Point?
5033	P7	Liam Peters	The IRON-ic Truth About Cereal
5522	P8	Martin Arvidson	Tidal Times
5553	P8	Samantha Salas	Fruits vs Vegetables
lew Milfo	rd	New Milford High School	
6091	PS	Jessica Learson	Worm Hole Theory
6507	PST	Cesar Gavilano Kurt Jonke	Tail-Pipe Turbine
6509	PST	James Kane Michael D'Ambrosio	oleumpra
6512	PST	Matthew Adamou Thomas Schneider	The U-Desk
6515	PST	Darius Baker Michael Carroll	The Power Pack
6518	PST	Codie Holick Devin Collentine	Car Coin Sorter
lewtown		St. Rose of Lima School	
2001	L7	Gregory Gargano	The Effect of Petroleum Products on the Growth of Ramshorn Snails (Planorbis Rebrum)
2028		Katerina Crowe	THE INVESTIGATION OF ACIDITY ON ZEBRA MUSSEL SHELLS DRIESSENA POLYMORPHA
5017	P7	Irena Komninakas	Bisphenol A content in BPA free water bottles, canned food items, children's plastic connectable beads and plastic pen caps
5027	P7	Brendan Adams	Taking Flight
lorwalk		Roton Middle School	
2518		Jane Hussey	Fantastic Fertalizer
2524	L8	Sarah Signore	What effect does surface temperature have on fingerprints?
4016	PT	Juan Urresta Max Ginsberg	How Does Temperature Affect the Elasticity of Rubber Bands?

Proj#/Category Students/Project Title

ΓΙΟjπ/	Calegory	Students/Project Title	
Norwich		Norwich Technical High School	
3031	LS	Christopher Papotto	The Effect of Bezafibrate Treatment on a Drosophila melanogaster Model of LCHAI Deficiency
3096	LS	Ryan Stollman	The Effect of Mutations on C. elegans Resistance to Intoxication
3139	LS	Gianpierre Roche	Does the bacteria in the Drosophila melanogaster gut affect the severity of Type 2 Diabetes symptoms?
3144	LS	Arkady Bibeau	Gender Identity Disorder
3501	LST	Brittany Cassidy Faith Stimson	Depressions Not A Choice, End The Stigma
3503	LST	Miranda Marriott Neely Henderson	Panic Disorder
3506	LST	Alexis Verrette Krystal Reyes	Exploration of Intermittent Explosive Disorder and Stigmas
3508	LST	Brianna Dziekan Athena Missios	Investigation of the Tenascin-X Protein and its Role in Ehlers-Danlos Syndrome
3511	LST	Samantha Grott Hailey Bill Emerald Haller	The Effect of Enzyme Treatment on Soil Bacterial Growth
3514	LST	Ashley Czech Gabrielle Martin	The Effect of Livestock Supplements on Soil Microbes
3517	LST	Kassidy Stackpole Travis Nordgren	Testing Drosophila melanogaster Flies as a Model to Study Alcohol Addiction
3521	LST	Aaron Toof John Coleman	The Effects of Fertilizers on Soil Bacteria
3523	LST	Nathanael Padgett Edward Russell	The Effect of Different Solid Medias on the Amount of Antibiotic-Producing Bacter Isolated from Soil Samples
3526	LST	Ashley Roch Qameron Mendez-Neff	Changing Attitudes Towards Panic Disorders
3529	LST	Kelsey Williams Douglas Rediger Joshua McConnell	The Effect of Soil Moisture Content on the Isolation of Motile Bacteria
3532	LST	Courtney Michaud Kyle Tempesta	The construction of an LCHAD Deficiency Model System and tagging of the HADH enzyme using C. elegans
3535	LST	Kimaela Estelan Anjoli Kamuda	Stomping the Stigma of Schizophrenia
3538	LST	Zachariah Meuse Owen Reynolds	PTSD Stigma in Veterans
Orange		Amity Reg Middle Scool - Orange	
2523	L8	Yujin Kim	Cognitive Tests in Games
2527	L8	Abigail Bonat	Effects of Commonly Used Fertilizers on Decomposition
2535	L8	Claudia Lihar	The Effects of Music on Memory
5510	P8	Adarsh Kongani	Inexpensive Fabric Insulator Alternatives for Expensive Bulky Jackets
5521	P8	Sebastian Todeasa	Silicone-Filled Drumsticks can Reduce Vibration Impact in a Drummer's Hand
Oxford		Oxford High School	
3009	LS	Spencer Moran	Mobile Devices Effect on Proxemics
3039	LS	Max Coleman	The Difference in Genetic Modification Levels and the 'Healthiness' of Apples Measured in Vitamin C Concentration
6090	PS	Michael Kashuba	Correlation of Elbow Kinetics and Ball Velocity to UCL Strain/ Injury in Baseball Pitchers
Pawcatuc	k	St. Michael School	
2018	L7	Anne Drago	Hydroponics - A World Without Dirt

Proj#/	Category	Students/Project Title	
2023	L7	Samuel Montalto	Is That Granite Radioactive?
2539	L8	Mary Malloy	Phototropism: In Indoor Germinated Seedlings
5505	P8	Hazel Allik	The Fastest Manicure
Plantsville	е	J.F. Kennedy Middle School	
1015	LT	Adriana Oddo Alexis Mullins	Can You Cope With Your Dish Soap?
1017	LT	Caleigh McDougall Madison Johnston	Oil Effect On Aquatic Plants
4012	PT	Lillian Eaccarino Abigail Mullins	"Got Plastic?"
4018	PT	Kajetan Naworol Pio Castellano	Strength of Bridges
5037	P7	Vincent Fioriello	Going The Distance
5040	P7	Ethan Lebo	What quantity of dimples on a golf ball best contributes to flight distance.
5562	P8	Dylan Sandow	Depth vs. Velocity
5575	P8	Margaret Coyle	Got Sugar?
Pomfret		Pomfret School	
6037	PS	YongWoo Lim	Study on the Roles of Reactive Oxygen Species(ROS) and Nano Scaled Biochemical Molecules Treating Tumor Cells
Redding		CT STEM Fair	
3061	LS	Katherine Handler	The Influence of Wildebeest Carcass Inputs on the Diet of Fish in the Mara River
3138		James He	The Relationship Between Intelligence Quotient, Phonological Awareness, and Reading Cognition: A Behavioral and Neuroimaging Analysis
3152	LS	Olivia Hallisey	Temperature-Independent, Portable, and Rapid Home Detection of Lyme Disease Using a Silk-Derived Lateral Flow Salivary Test
3527	LST	Joseph Sugarmann Samuel Mahler	The Effect of Foot Arch Height on the Area of Maximum Force The Foot Exerts While Running
6013	PS	Connor Li	Optimization of Vertically Aligned Boron Nitride Nanotube Membranes via Magnetic Arrangement in a Lyotropic Precursor for Water Transport Applications
6057	PS	Daniel Pfrommer	AprilTrack: A Particle-Filter based AprilTag Tracker
Redding		Joel Barlow High School	
3004	LS	Luca Cerbin	The Ameliorating Effects of Biochar and Fertilizers on the Amount of Organic Matter and Organic Carbon in Native Connecticut Soil
3021	LS	Daniel Brey	The Effect of Different Species of Coprophagous Arthropods on the Reduction of Methane Production from Feces
3041	LS	Sumudu Gunawardana	A Novel Approach to the Ease and Accessibility of Early Detection of Chronic Kidney Disease (CKD) to Prevent Onset of End Stage Renal Disorder Through Examination of Urinalysis
3079	LS	Rahul Kiefer	The Study of the Filtration Effects of the Flowing of Water Contaminated with Escherichia coli K-12 Through the Xylem of Ficus Aurea
3084	LS	Adam Boczar	The Effects of Global Climate Change on the Production of Oxygen Gas and Chlorophyll Fluorescence in the Chlorophyll f Pigment and with Chlorogloeopsis fritschii.
3093	LS	Cara Krupnikoff-Salkin	The Effects of Elevated Temperature on the Compensatory Feeding of a Generalist Caterpillar on C3 and C4 Grasses in an Elevated CO2 Atmosphere
3097	LS	Samantha Ballas	The Effect of Rising Water Temperature and Decreasing pH on Vibrio Cholerae Cases
3102	LS	Sean Mullin	Influence of Climate on the Decline of Fraxinus americana
3105	LS	Kailey Lauter	How Carbon Dioxide Levels Affect The Geographic Expansion of Borrelia burgdorferi and The Spread of Lyme borreliosis
3111	LS	Jenna Ledbetter	Effects of Climate Change and pH Change on Daphnia Population Size and in turn Complete Freshwater Aquatic Ecosystems
3130	LS	Melani Zuckerman	The Role of Acidity in Phosphorus Fixation of Phaseolus Vulgaris through Induced Systemic Resistance by Inoculation of Azospirillum Brasilense

Proj#/	Category	Students/Project Title	
3145	LS	Jacob Lenes	The Inclusion of Ulva Lactuca Masses to the Domain of Isopora palifera Fragments May Culminate in the Reestablishment of Moderately Suspended Symbiotic Zooxanthellae.
3518	LST	Ella Gaspar Taylor Macchia	A Statistical Analysis of the Inflation of Atmospheric CO2 Levels and the Correlation Between Sea Ice Concentration and Aptenodytes Forsteri Breeding Patterns
3530	LST	Alex Palvinski Michael Klein Wassink	Analysis of the Effects of Selenastrum capricornutum on the pH of Freshwater Marine Environments
6026	PS	Andrew Nicoll	The Albedo and Crystal Analysis of Black Carbon's Ablation on Glacial Sea Ice and Di-hydrogen Monoxide Temperature change due to Diverse Crystalline Structures
6079	PS	Jonathan Lam	Experimentally determining the total lasting albedo effect of aerosol-seeded clouds based on aerosol particle type
Ridgefield	t	Ridgefield High School	
3146	LS	Nora Maerean	Analyzing Rhythmic Processing Abilities in Children Ages Five to Fifteen
Sandy Ho	ok	Newtown High School	
3008	LS	Chloe Kasak	Leg Exoskeleton for Pactient With Osteogenesis Imperfecta to Help Prevent Bone Fractures
6029	PS	William LeMay	The Synthesis of Silica X-Aerogels through the Sub-Critical Process
6032	PS	Kelsey O'Connor	Using Octadecanol to Limit Freshwater Evaporation in Areas of Droughts
Shelton		Shelton High School	
3033	LS	Hunter Wronski	Shell Shock The Effects of Ocean Acidification on Shelled Marine Organisms
6002	PS	Jacob Zuklie	(experimental) Hot Glass
6023	PS	Marissa Peck	Biodegradable Plastic Study to Prevent Oceanic Pollution
6042		Gregorio Corsale	Cheap Heat
6046	PS	Kyle Young	Cycling Assisted Brake
6058	PS	Michael Kichar	The Efficient Application of Resonant Energy
6064	PS	Lauren Pawlowski	An Engineering Approach to Developing Sustainable Technology: Piezoelectric-Powered Shoe Inserts
6088	PS	Siddharth Jain	The Effect of Center of Mass and Center of Pressure Locations of Model Rocket Performance
Shelton		Shelton Intermediate School	
1008	LT	Hailee Lazaro Cathleen Higgings	Teething you the truth
5023	<b>P</b> 7	Sofia Gasbarro	Sneaker Feature
5543	P8	Jules Cayer	How does weather vary across the city?
Shelton		St. Joseph School	
1006	LT	Ana Bushati Jon Cela	The effect of different materials used as a filter on the purity of water
5013	<b>P</b> 7	Kenny Mcgovern	The Amazing Magnetic Glove
5016	P7	Mark MacDaniel	Insulation Wars
5507	P8	Alexandra Coleman Coleman	Battle of the Bridges
Simsbury		Westminster School	
6041	PS	Dong Ju Lee	Development of New and Efficient Metamaterials
6048	PS	Seung Ki Lee	Efficient Wind Turbine Blade Design Using Computational and Numerical Analysis
6052	PS	Nicholas Wee	Adaptive Boosting - A Study on Machine Learning
Southingt	ton	J.A. DePaolo Middle School	
2032	L7	Bogna Prusak	Eco-Friendly Preservation of Vegetables
2508	L8	Deon vieira	Lights! Beans! Action!
2512	L8	Allison Guzauckas	Digesting Medication

Proj#/	Category	Students/Project Title	
5026	P7	Morgan Birdsey	Snap Crackle Pop
5520	P8	Faith Kosior	Does the Surface Really Matter?
Southingt	on	Southington Catholic School	
5024	P7	John Byrne	What Recyclable Material Makes the Best Insulator?
5504	P8	Victoria Gomez	Trash to Gas!
Stamford		Bi-Cultural Day School	
1002	LT	Brandon King Ori Divon	Is "non-toxic" dish detergent safe for the environment?
1016	LT	Ben Cohen Joshua Marcus	How do Brine Shrimp Hatch in different Ph?
2011	L7	Aaron Liebskind	How Different Colored Lights Impact Plant Growth
2025	L7	Anna Lichtenberg	An Analysis of Nitrogen and Phosphate Fertilizer on Algae Growth
Stamford		The Beacon School	
6001	PS	Thomas Cortellesi	Comparing the Thermal Management Requirements of Silicon and Multijunction Tin-Based Perovskite Solar Cells.
Storrs		EO Smith High School	
3044	LS	Alexander Chandy	Patterns in the Overall Performance of Baseball Players at Different Positions
Stratford		St. Mark School	
1001	LT	Kaitlyn Feliciano Jenna Koonitsky	How Sweet Is It?
2005	L7	Kaitlyn Szczepanski	"Watts" the efficiency of solar cells?
2522	L8	Kaitlyn Grassia	Antacid Potency
4026	PT	Liam Millott Matthew Morales	Can U(V) See the Light
5029	P7	Mya Zayas	How Safe Is Your Water?
5035	<b>P</b> 7	Michael LaMonica IV	Making Tie Dye Milk
Suffield		Suffield High School	
3012	LS	Ryan Cleaves	Self Defogging Ski Goggles
3058	LS	Madison D'Ostuni	An Application that Teaches the Fundamentals of Programming in Java
3090	LS	Lizbeth Serrano	Vet vs DIY
3115	LS	Leroy Lawson	Can Video Games Boost Intelligence in Children?
3504	LST	Aidan Werenski John Dion Ziad Hassan	An Evaluation of Varying Reaction Times from Mobile Phones and Its Practical Application
3520	LST	Jason Werenski Yash Mehta Tristan Evans	An investigation of Nannochloropsis oculata / Yeast Biofuel Efficiency
3528	LST	Brooke Tillotson Jackson Smith Katherine Platt	Size of Fish vs. Nutrient Density of Plants
6027	PS	Caitlin Kirschbaum	A Novel Approach to Measuring Reaction Times in a Simulated Driving Environment
6060	PS	Samatar Wehelie	Perpetual Wind Energy
6073	PS	Zachariah Service	A Small Spectrometer to Find Peanut Ingredients in Food.
6082		Katherine Baker	The Reutilization of Plastic as a Home Insulation System
6501	PST	Zachary Rossignol Dylan Reilly	Levitating and propelling objects.

Proj#/	Category	Students/Project Title	
Suffield		Suffield Middle School	
2511	L8	Akshita Jindal	How age affects short term memory
5010	<b>P</b> 7	Ayush Mehta	Do Video Game Players Have Faster Reaction Times Than Non-Players?
Trumbull		Christian Heritage School	
2533	L8	Amanda Shipman	The Effect of Martian Regolith on Vegetable Germination for Extra Terrestrial Colonization
5509	P8	Ymonie Humphries	The Effect of Heat on Static Electricity
5532	P8	Andrea Piraneque	Is Biuret Test a reliable reagent to indicate the presence of egg proteins in raw, cooked, and baked egg that can trigger an allergic reaction?
5555	P8	Rachel Brooks	The fabrication and testing of various fruit juice dye-sensitized solar cells with the addition of preservatives
6018	PS	Judah Immanuel	The Design and Fabrication of a Zero Carbon Emissions Compressed Air Engine Eliminating Batteries and Other Associated Environmental Impacts
6070	PS	Cristian Piraneque	Feasibility of Radio Frequency Technology To Potentially Create a Wearable Distance-Sensitive Device to Help Young Adults Avoid Forgetting Epi-Pen.
6095	PS	Chiharu Taniguchi	The Fabrication and Testing of a Personal Air Quality Monitoring System
Trumbull		St. Joseph High School	
3509	LST	Cheng Chang Hao Zhang	Effect of Popular Acidic Drinks on Human Tooth Enamel and Use of Common Chemical Additives to Reduce Enamel Erosion
6096	PS	James Bove	Determining Orbital Properties of Eclipsing Binary Stars Through Visual Observations of Variable Brightness
6504	PST	Abigail Cloud Anna Argulian	Today's Invisible Threats: the Concentration of Radon According to Geological and Geographical Components
Trumbull		Trumbull High School	
3038	LS	Victoria Estacio	An Investigation on the Potency of Sunscreen in Protecting Against UV Rays
3071	LS	Armand Perez	Effects of Stimulants on Heart Rate
3089	LS	Arnav Srivastava	The Effect of Added External Chemicals on Inhibiting Population Growth of Cyanobacteria Within a Fertilizer-Runoff Environment
3118	LS	Srishti Pithadia	Limiting our Exposure to Radio Frequency Radiation
6006	PS	Neal Keklik	Decreasing Energy Loss in the Flow of Electricity
6022	PS	Ryan lassogna	Effect of Magnetism on the Rate of Heat Transfer
Waterford		Waterford High School	
3016	LS	Sophie Wang	The Use of Copepods as a Mosquito Control System
Watertowi	n	The Taft School	
3106	LS	Yejin Kim	Reactivity and Stability Analysis of Metal Organic Frameworks(MOFs)
West Hart	ford	Hebrew High School of New Engla	nd
3099	LS	Batya Koenigsberg	The Effects of Natural Organic Compounds on the Inhibition of Bacillus Subtilis Biofilm Growth
3112	LS	Ariella Snyder	Determining the Most Distracting of the Five Traditional Senses from Feelings of Pain
West Hart	ford	King Philip Middle School	
5038	P7	Theodore Zhang	Slip Hazard Alarm RobotH2OhNobot
West Hart	ford	Solomon Schechter Day School	
5009	P7	Harry Gold	Brownie Points The effect of flours on brownies
West Hart	ford	St. Brigid-St. Augustine School	
2505	L8	Melanie Grajales	Ecological Refrigerator
2525	L8	Alexandra Guerrero	How Much Sugar Are You Drinking?
5511	P8	Angel Nooks	A Battery That Makes "Cents"
West Hart	ford	St. Timothy Middle School	
2017	L7	Mia Porcello	Hitting All the Right Notes: Unlocking the Formula to Oscar-Winning Original Songs

Proj#/	Category	Students/Project Title	
2022	L7	Grace Flynn	Green Tea: A Simple Solution for a Bananas Problem?
2526	L8	Christopher Baldini	Sweet Smarts!
5006	P7	Alex Rosenthal	What's Blocking Your Wi-Fi Signal?
Weston		Weston Middle School	
2516	L8	Matthew Krauss	Homemade RC Plane
5501	P8	Sophia Balotescu	Baking Vanilla Cupcakes with Different Ratios of Ingredients at Different Temperatures
5540	P8	Brian Nordlinger	How does the fill density of a 3D printed flying disc effect how far it flies?
5544	P8	Byron Hart	Challenges of Creating a 2-d Platformer Game Level
5547	P8	Julia Gregory	Creating a Cosmetics Foundation with Natural Ingredients
Westport		Staples High School	
3022	LS	Nicole Arellano	The effects of environmental factors on overexpressed tau genes in Drosophila Melanogaster in regards to neurodegeneration
3043	LS	Virginia Gerig	Cilantro and plants with ester functional groups purify copper(II) from water
3143	LS	Sarah Barnett	Investigation of Effectiveness of Bowel Preparations and Physician Rating for Maximum Visibility in Colonoscopy Procedures to Increase the Detection Rate of Colorectal Cancer
Wilton		Middlebrook Middle School	
2504	L8	Anika Bhagavatula	A Novel Method for Oil Spill Cleanup Using Biomass
2536	L8	Ashley Klancko	Love Me Tender
5546	P8	Rohan Vaddiraju	Multi-Purpose Home Automated Motion Sensor
5557	P8	Rahul Vallabhajosula	Air Engine : Can it be an alternative to a gasoline engine?
Windsor		Academy of Aerospace and	
3053	LS	Ketaki Pawar	The Effect of Oldenlandia diffusa on the Growth and Proliferation of Mouse Lewis Lung Cancer Cells
3057	LS	Cody Ruszczyk	Effect of Ground Nutmeg and Clove and their Essential Oil on the Growth of Lactococcus lactis
3078	LS	Spencer Scutt	An Investigation on the Effect of the Acidification of Soil on the Growth of Lolium perenne
3080		Nicholas Keegan	An Investigation of the Effects of Solid Road Deicers on the Early Development of Zebrafish Embryos
3122	LS	Kyla Thomas	The Effect of Acid Rain on the Regeneration of Nematostella Vectensis
3512	LST	Makrina Nolan Seth Schmitt	The Effects of Artificial Sweeteners On Human Gut Flora
6019	PS	Nikhil Bhat	The effect of adding a second polymer to polyethylene terephthalate on the mechanical properties and morphology of the polymer blend systems
6098	PS	Jay Aindow	Effects of Concentration and Cooling Rate on Microstructural and Macroscopic Properties of Tin-Zinc Binary Alloys
6513	PST	Chandni Patel Janine Albert	The Effect of Adding a Second Polymer to Bombyx mori silk fibroin on the Mechanical Properties and Morphology of The Polymer Blends
6523	PST	Chris Rinaldi Vishakh Talanki Jean Pasato	Effect of Aerodynamic Leaf Design on Electrical Power Generation via a Network of Vertically Aligned Micro Wind Turbines.
Windsor		Academy of Aerospace and	
4006	PT	Jay Srivastava Mahesh Persaud Aarnav Alsi	The Battle of the Rockets.
Windsor		Greater Hartford Academy of Ma	th and
3002	LS	Marissa Guzzo	The Effect of Cellect Nutrient Powder on Mus Musculus Lewis Lung Carcinoma Cell Confluence, Viability and Growth Rate
3045	LS	lan Witzgall	The Effect of Hormone Stimulation of Planarian Regeneration
3073	LS	Ashley Shafran	The Effects of Artemisinin and Ferrous Iron on Mouse Lewis Lung Carcinoma Growth

Proj#/	Category	Students/Project Title	
3124	LS	Brianna Mailloux	The Effect of Asparagus cochinchinensis Root on Mouse Lewis Lung Carcinoma Growth
3131	LS	Jason Vailionis	Viability of Cloud-Bacteria Transportation
3141	LS	Meghan Howard	The Effect of Two Brands of Melatonin on Lewis Lung Cancer Cell Growth
3507	LST	Alexa Wilson Arshad Bhura Malavika Madan	The Investigation of the Effectiveness of Triclocarban as an Antibacterial Agent
3515	LST	Preksha Gupta Artem Boyko Zirui Hao	Environmental Stresses on the Rate of Evolution of Escherichia coli to Antibiotics
3522	LST	Alexandra Smith Sreenidhi Nair	The effects climate change variables have on genetic inheritance of butterfly wing patterns
Windsor		Madina Academy	
3051	LS	Fairuza Mikailou	Starch in leaves.
3531	LST	Ruqayyah Paine Sameen Awan	The Effect of Consumption Organic VS Non organic Asclepias Syriaca on the Growth and Health of Danaus Plexippus
4013	PT	Sakinah Caesar Sheza Chaudhry	Light Intensity and Photosynthesis: How different colors of light and their intensities affect photosynthesis?
4020	PT	AlYaman Zoghol Ahmad Mohammed	Investigating Novel Methods of Generating Electricity Using a Double Plated Magnetic Generator with Springs Compared to a Miniature Axial Rounded Tip Tidal Stream Generator
6514	PST	Ayman ElSherbini Alina Mohammed	Charge Your Devices Using a Portable Thermoelectric Generator Harnessing Wasted Heat Energy
6516	PST	Radeyah Ahmed Jareen Choudhury	Converting Grass into Cellulosic Ethanol to Generate Energy as a Heating System
Windsor		St. Gabriel School	
2529	L8	Jeremy Blackwood	Convential v. Organic Fruit
5529	P8	Jessica Akin	Soiled Soil
Windsor		The Loomis Chaffee School	
3082	LS	Emily Isabel Dias	Production of Natural Products in E.coli
Woodbrid	lge	Amity Regional High School	
3001	LS	Emily Criscuolo	Investigating Murine Humoral Responses to Tick-borne Pathogens to Develop a Confirmatory Diagnostic Tool
3006		Agrani Dixit	Dissecting the role of Desmosterol in regulating macrophage immune activation during atherogenesis
3014	LS	Sebin Park	Examining variation in immunity genes of bananas of different geographic regions through genotyping
3020	LS	Kevin Yanagisawa	The Comparison of Metal Absorption of Microparticles from Various Face Washes
3027	LS	Alicia Chen	Determining Genetic Mutations in Gitelman Syndrome
3055	LS	Ulada Dubovik	The Effect of Oxidative Stressors on Cultured Epithelial Lung Cells
3065		Suvasini Balaji	Evaluation of Potential Outer Membrane Proteins Candidates for the Serological Diagnostic of Leptospirosis
3077		Ananya Kachru	Analyzing HIV CRISPR gRNA sequences for cross-targeting HIV variants in patients
3085		Allison Fischman	Taste Perception in Obesity: Understanding the Role of Physiological State, Macronutrient Intake, and Flavor Preference
3088	LS	Weixin Du	Effect of point of view on lasting empathy
3091		Rohan Patel  Jacob Gross	Utilization of Q-2 Pressure System in Preventing Pressure Ulcers for In and Out- Patient Therapies  Using Connectivity Data to Remap the Mouse Brain
3110	LO	Sarah Saxe	Effect of Fecal Matter on Cimex Lectularius (Common Bedbug) Aggregation as an Alternative to Extermination
3120		Thomas Livesay	Determining Ideal Management Strategy for Controlling Varroa Mite Levels
3132	LS	Kevin Zhao	Improving Cardiac Motion Correction in Cardiac SPECT

Proj#/	Category	Students/Project Title	
3135	LS	Jacob Feuerstein	Correlations Between Specific Gut Flora and Different Body Mass Type Changes
3524	LST	Joseph Benedetti	The Effect of Predation and Availibilty of Resouces on Habitat Selection of Oniscus
		Austin Gilbride	asellus
6004	PS	Kate Yuan	Analysis of Mercury Content in Sediments of New Haven Harbor
6043	PS	Jacob Silliman	The Fabrication of a Graphene Supercapacitor
6049	PS	Jimmy Bi	Improving the Outbrain Click Prediction Algorithm
6071	PS	Henry Molot	Is It More Effective to Get Achilles Surgery or Use Physical Therapy After a Ruptured Heel Cord?
6077	PS	Vince Li	Synthesis and Improvement of Mechanical Robustness Within Photonic Crystals
6080	PS	Julia Todeasa	Comparing the efficiency of water-filtering materials and developing an affordable, effective, water filtration system for the developing world
6084	PS	Keri Tenerowicz	The Effect of Different Textures of Coconut-Based Activated Carbon on the Adsorption of Dyes
6089	PS	Jethin Gowda	Study of Size Separation of Sub-Millimeter Sizes Granular Material Using Vibro- Fluidization
6093	PS	Quinnlan Burke	Designing a Protective Cap To Reduce Impact Force and Head Trauma
6099	PS	Howard Ding	Residential Oil Tank Risk Prediction
6510	PST	Kelsey McCormack	Analysis and Proving of "Cycloid" Universe Using Friedmann Equations and
		Himay Dharani	Torsion Cosmology
6520	PST	Rosie Du	The Effect of Bio-inspired Textures on Friction
		Courtney Greifenberger	
6527	PST	Summer Schaaf	Impacts of Ocean Acidification on Phytoplankton
		Neha Sudhir	
Woodbrid	ge	Ezra Academy	
5028	<b>P</b> 7	Rachel Logue	The Plentiful Popcorn Project
5523	P8	Ethan Lavi	Tracking the movements of a human being.
5528	P8	Gideon Reiter	Is There a Tapiolite Vein in Connecticut?
5548	P8	Noah Sapire	What's you signal?