



Connecticut Science & Engineering Fair

Quinnipiac University

March 14 - 18, 2017

These judging results are unaudited by the fair's Database Committee. The CSF reserves the right to correct the listings.

Preliminary Judging Results

Honors Received in Regular Fair Preliminary Judging

[SchTown]	[School]	[Teacher]	[Proj#]	[FCat]	[Honors]	[Project Title]	1st Honors are Finalists
Avon	Avon High School	Mrs. Andrea Galuska	6529	PST	3	Virtual Forensics Chemical Lab Simulation App (for Liquids, Metals, and Nonmetal Solids)	
		Student(s) Jaya Hari					Grade 9 Town Avon
		Dheepa Hari					Grade 9 Town Avon
Avon	Avon High School	Andrea Galuska	6020	PS	2	Fluorescent Nanofiber Matrices as Extracellular Matrix Tissue Substitutes	
		Student(s) Humza Zaidi					Grade 11 Town Avon
Avon	Talcott Mountain Academy	Usha Meera	2026	L7	2	The effect of music on memory	
		Student(s) Grace Allen					Grade 7 Town Avon
Avon	Talcott Mountain Academy	Ms. Meera	2530	L8	2	Bacterial Growth	
		Student(s) Elise Casey					Grade 8 Town Avon
Avon	Talcott Mountain Academy	Ms. Merra	2502	L8	2	The Effects of Smell Loss From Perfume Based on Age	
		Student(s) Kathleen Casey					Grade 8 Town Avon
Avon	Talcott Mountain Academy	Ms. Finlayson	2029	L7	2	The Effects Of Weather On Warblers in Pomfret Ct	
		Student(s) Connor Farquhar					Grade 7 Town West Hartford
Avon	Talcott Mountain Academy	Usha Meera	2021	L7	2	Can Pseudomonas putida purify the air by biodegrading volatile organic compounds ?	
		Student(s) Karan Kothari					Grade 7 Town Glastonbury
Avon	Talcott Mountain Academy	Lydia Gibb	5539	P8	2	Unsupervised Machine Learning for Text Categorization	
		Student(s) Aresh Pourkavoos					Grade 8 Town Avon
Baltic	Sayles School	Miss Roy	5041	P7	3	Wave Generated Beach Erosion	
		Student(s) Abigail Staggs					Grade 7 Town Baltic
Bethany	Amity Reg Middle School - Bethany Campus	Kevin Berean	5525	P8	1	Waterbot	
		Student(s) Jonathan Fischman					Grade 8 Town Woodbridge
Bethany	Amity Reg Middle School - Bethany Campus	Kevin Berean	4007	PT	1	Plantaid	
		Student(s) Evan Gorelick					Grade 8 Town Woodbridge
		Peter Savelyev					Grade 8 Town Woodbridge

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[SchTown] [School] [Teacher]
 [Proj#] [FCat] [Honors] [Project Title] **1st Honors are Finalists**

Bethany Amity Reg Middle School - Bethany Campus Kevin Berean
 4004 PT 1 Water Turbine
Student(s) Christopher Hill Grade 8 Town Woodbridge
 Benjamin Lee Grade 8 Town Woodbridge

Bethany Amity Reg Middle School - Bethany Campus Mr. Kevin Berean
 4021 PT 1 The Energy Band
Student(s) Kabir Khwaja Grade 8 Town Woodbridge
 Samuel Green Grade 8 Town Bethany

Bethany Amity Reg Middle School - Bethany Campus Kevin Berean
 4025 PT 1 The Clean Drain
Student(s) William Livesay Grade 8 Town Woodbridge
 Joshua Feuerstein Grade 8 Town Woodbridge
 Arnav Paliwal Grade 8 Town Woodbridge

Bethany Amity Reg Middle School - Bethany Campus Berean
 5569 P8 3 Injur-knee
Student(s) Cameron Luciano Grade 8 Town Woodbridge

Bethany Amity Reg Middle School - Bethany Campus Kevin Berean
 5564 P8 1 Pen-nik
Student(s) Nikhil Mali Grade 8 Town Woodbridge

Bethany Amity Reg Middle School - Bethany Campus Kevin Berean
 4010 PT 2 Using Nanotechnology to Clean Oil Spills
Student(s) Aamnah Malik Grade 8 Town Woodbridge
 Kathleen Inclima Grade 8 Town Woodbridge

Bethany Amity Reg Middle School - Bethany Campus Kevin Berean
 5574 P8 2 How WiFi Affects the Growth of Plants
Student(s) Hanna Skiba Grade 8 Town Woodbridge

Bethany Amity Reg Middle School - Bethany Campus Kevin Berean
 5559 P8 1 Vision Shoe
Student(s) Shyam Viswanathan Grade 8 Town Woodbridge

Bethany Amity Reg Middle School - Bethany Campus Kevin Berean
 5519 P8 1 Extinguish-Bot
Student(s) Weiss Yuan Grade 8 Town Woodbridge

Bethany Amity Reg Middle School - Bethany Campus Kevin Berean
 4001 PT 2 Using Flocculation to Extract Chromium 6 From Water
Student(s) Wendy Zhang Grade 8 Town Woodbridge
 Claire Yuan Grade 8 Town Woodbridge

Bethany Amity Reg Middle School - Bethany Campus Kevin Berean
 1003 LT 2 Test Methods
Student(s) Juliette Zito Grade 8 Town Woodbridge
 Eesha Acharya Grade 8 Town Bethany

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Bethel Bethel High School Raymond Turek
3066 LS 1 Maximizing Energy Production from MudWatts
Student(s) Brynne Bosworth **Grade 12** **Town** Bethel

Bethel Bethel High School Raymond Turek
6014 PS 3 The Performance of a Graphene anode battery in a Remote Control Car
Student(s) Daniel Islam **Grade 12** **Town** Bethel

Bethel Bethel High School Ray Turek
3029 LS 2 Raynaud's Phenomenon Noninvasive Treatment Through Natural Breathing and Meditation Techniques
Student(s) Jessica MacIntyre **Grade 12** **Town** Bethel

Bethel Bethel High School Ray Turek
6092 PS 3 Methane Reduction in Hydropower Plants
Student(s) Pavitra Rao Makarla **Grade 12** **Town** Bethel

Bethel Bethel High School Ray Turek
6086 PS 2 Synthetic Turf Infill Engineering
Student(s) Rachel Salvador **Grade 12** **Town** Bethel

Bethel Bethel High School Mr. Turek
3036 LS 3 4,2-Dichlorophenoxyacetic acids influence on production of soft tissue sarcoma within Rodent Skeletal muscle.
Student(s) Henry Valle **Grade 12** **Town** Bethel

Bethel St. Mary School Kate McDonald
5552 P8 3 Name Brand vs. Value Brand vs. Homemade
Student(s) Judith Apotheker **Grade 8** **Town** Bethel

Bethel St. Mary School Mrs. McDonald
1010 LT 3 Food Energy - Calorimeter
Student(s) Joseph Campolo **Grade 8** **Town** Bethel
Anthony Campolo **Grade 8** **Town** Bethel

Bethel St. Mary School Kate McDonald
5506 P8 2 Solar Cells
Student(s) Grace Garvey **Grade 8** **Town** Bethel

Bethel St. Mary School Kate McDonald
5015 P7 3 Shapes of Parachutes
Student(s) Ricky Lawlor **Grade 7** **Town** Bethel

Bethel St. Mary School Mrs. Kate McDonald
5542 P8 3 Wind Turbines
Student(s) Anna Meehan **Grade 8** **Town** Bethel

Bethel St. Mary School Kate McDonald
2507 L8 3 Hydroponics vs Soil Gardening
Student(s) Lola Taylor **Grade 8** **Town** Bethel

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Bethel St. Mary School Kate McDonald

5018 P7 2 Building A Smarter Gutter

Student(s) **Caroline Tucker**

Grade 7 Town Danbury

Bolton Bolton High School Kevin Hartmann

6017 PS 2 An Investigation of Factors Affecting Catalytic Functions.

Student(s) **Elizabeth Sansevero**

Grade 12 Town East Hartford

Bozrah Fields Memorial School Mrs. E. Brown

5535 P8 2 Password Security; How Easily Can Your Password Be Hacked? What Can You Do to Make it Safer?

Student(s) **Kyra Adcock**

Grade 8 Town Bozrah

Bozrah Fields Memorial School Mrs. E. Brown

5008 P7 1 Orb Characteristics and Containment

Student(s) **Elijah Ramthun**

Grade 7 Town Bozrah

Bozrah Fields Memorial School Mrs. Brown

5001 P7 1 Building Tesla Coils

Student(s) **Lucas Santo**

Grade 7 Town Bozrah

Bozrah Fields Memorial School Mrs. Brown

5004 P7 1 Environmental Monitoring System for Dog Safety

Student(s) **Morgan Tainter**

Grade 7 Town Gilman

Bridgeport Black Rock School Helena Coatsworth

5572 P8 3 How Far Will It Stretch?

Student(s) **Jayvyn Kerr**

Grade 8 Town Bridgeport

Bridgeport Blackham School Christine Kasten

4023 PT 3 How Does the Temperature of a Tennis Ball Affect the Height of It's Bounce?

Student(s) **Guilherme Pinto**

Grade 7 Town Bridgeport

Christopher Schramm

Grade 7 Town Bridgeport

Bridgeport Bridgeport Military Academy Samantha Lasko

3534 LST 3 Does Makeup Grow on Bacteria?

Student(s) **Kiara Corporan**

Grade 9 Town Bridgeport

Suany Ulloa

Grade 9 Town Bridgeport

Bridgeport Bridgeport Military Academy Evanna Dias

6068 PS 3 Fire Resistance

Student(s) **Evanna Dias**

Grade 12 Town Bridgeport

Bridgeport Bridgeport Regional Aquaculture Center Kirk Shadle

3101 LS 2 Evaluation of Caenorhabditis elegans as a Bioindicator of Soil Toxicity via Chemotaxis Assay of Anthronilic Acid

Student(s) **Connor Anderson**

Grade 12 Town Stratford

Bridgeport Bridgeport Regional Aquaculture Center Kirk Shadle

3076 LS 2 The efficacy of topical ascorbic acid as an inhibitor to mold and bacteria growth

Student(s) **Cassidy Fawcett**

Grade 12 Town Fairfield

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Bridgeport Bridgeport Regional Aquaculture Center Kirk Shadle

3068	LS	2	Predicting the Genomic Pathways of Adaptation In <i>Spartina alterniflora</i> Salt Tolerance Proteins LSD1, EDS1, and PAD4 in Response to Sea Level Rises Via Phylogenetic Trees
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Student(s) Amanda Hernandez **Grade** 12 **Town** Bridgeport

Bridgeport Bridgeport Regional Aquaculture Center Kirk Shadle

3098	LS	2	Developing a Spatial Model of Invasive Spread in Response to Climate Change
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Student(s) Tomas Koeck **Grade** 12 **Town** Fairfield

Bridgeport Bridgeport Regional Aquaculture Center Kirk Shadle

3072	LS	2	Developing a Minimally Invasive Form of Enhancing In Vitro Cellular Growth via Ultrasonic Frequencies
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Student(s) Emily Luciano **Grade** 12 **Town** Stratford

Bridgeport Bridgeport Regional Aquaculture Center Kirk Shadle

3137	LS	2	The Use of a Hydroxybenzene Group Variant, Grapefruit Seed Extract, as an Alternative Natural Pesticide for Contemporary Chemicals in Modern Agriculture
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Student(s) Kyle Rosenfeld **Grade** 12 **Town** Fairfield

Bridgeport Bridgeport Regional Aquaculture Center Kirk Shadle

6038	PS	2	The Application of Ferrofluid paired with Neodymium Rare Earth Magnets to Reduce Friction.
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Student(s) Paul Santandrea **Grade** 12 **Town** Fairfield

Bridgeport Bridgeport Regional Aquaculture Center Kirk Shadle

3129	LS	2	Utilizing a Freshwater Bioreactor as an Effective Carbon Dioxide Sequestration Technique
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Student(s) Daniel Schaefer **Grade** 12 **Town** Stratford

Bridgeport Bridgeport Regional Aquaculture Center Kirk Shadle

3094	LS	2	The Application of Pyrethrin as an Organic Systemic Insecticide for <i>Acheta domestica</i>
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Student(s) Brian Tormey **Grade** 12 **Town** Fairfield

Bridgeport Bridgeport Regional Aquaculture Center Kirk Shadle

6078	PS	2	Evaluation of BMG via tensile strength and hardness after exposure to acidic, basic, and saline conditions
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Student(s) Koe Tsutsumi **Grade** 12 **Town** Stratford

Bridgeport Bridgeport Regional Aquaculture Center - BCF Holly Turner

3062	LS	2	The antimicrobial efficacy of probiotics with <i>Homerus americanus</i> (American Lobster) exoskeleton fauna to control the impacts related to Shell Rot Disease
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Student(s) Simone DiBella **Grade** 10 **Town** Bridgeport

Bridgeport Bridgeport Regional Aquaculture Center - BCF Kirk Shadle

6028	PS	2	Development of an Economical Single Stream Recovery Protocol of LiCoO ₂ Via Biological Sequestration
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Student(s) Zachary Gottlieb **Grade** 12 **Town** Stratford

Bridgeport Bridgeport Regional Aquaculture Center - BCF Kirk Shadle

6517	PST	1	A Novel High Performance Liquid Chromatography Protocol to Investigate the Analgesic Role of Salicylic Acid and Other Bioactive Components found in Traditional Chinese Medicine
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Student(s) Rachel Roca **Grade** 12 **Town** Trumbull
 Julia Lawlor **Grade** 12 **Town** Southport

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Bridgeport Bridgeport Regional Aquaculture Center - BCF Holly Turner

3540	LST	3	Determination of light Wave Length Effect on Gracilaria tikvahiae Growth Rate
Student(s)		Damon Sherwood	Grade 10 Town Bridgeport
		Juan Alvarez	Grade 10 Town Bridgeport

Bridgeport Bridgeport Regional Aquaculture Center - BCF Kirk Shadle

6024	PS	1	Investigating the Efficacy of Magnesium Nitrate as a Viable Solvent in the Synthesis of 2,5-Dimethylfuran Biofuel
Student(s)		Cole Stearns	Grade 12 Town Fairfield

Bridgeport Fairchild Wheeler Magnet High School Ms. Warner

3116	LS	3	Studying Picture Quality: Evaluation of Pixels in Pictures Taken on the iPhone 7+ Camera, iPhone 6+ Camera and Snapchat Camera.
Student(s)		Jordan Chisholm	Grade 11 Town Bridgeport

Bridgeport Fairchild Wheeler Magnet High School Lucas Fatsy

6059	PS	3	Most Powerful Wind Turbine Blades
Student(s)		Ezekiel Cruz	Grade 9 Town Trumbull

Bridgeport Fairchild Wheeler Magnet High School Mr. Apgar

6008	PS	3	" I'm just saying you can do 'beta' "
Student(s)		Natanael Garcia	Grade 11 Town Stratford

Bridgeport Fairchild Wheeler Magnet High School Ms. Ma

6511	PST	2	Will the type of Acidic Liquid Mix With Milk change the Durability of Plastic
Student(s)		Cecilia Merlo	Grade 10 Town Bridgeport
		Praneeth Sundararajan	Grade 10 Town Milford

Bridgeport Fairchild Wheeler Magnet High School Ms, Warner

6003	PS	2	AN INVESTIGATION INTO THE CAPABILITY OF GRAPHENE TO PRODUCE ELECTRICITY DURING RAINSTORMS AS AN ADDITION TO A TRADITIONAL SOLAR PANEL
Student(s)		Steven Siveyer	Grade 10 Town Monroe

Bridgeport Fairchild Wheeler Magnet High School Mr. Nilan

6526	PST	3	Using Programming to Solve Math Problems My Calculus Teacher Couldn't Solve
Student(s)		Kenneth Wright	Grade 11 Town Milford
		Jada Worthy	Grade 11 Town Bridgeport

Bridgeport High Horizons Magnet School Portia Scott-Thiam

2513	L8	2	Hydroponics vs. Fogponics
Student(s)		Rebecca Abirached	Grade 8 Town Bridgeport

Bridgeport High Horizons Magnet School Portia Scott-Thiam

4019	PT	3	Can you hear what the sound polluting?
Student(s)		Joshua Green	Grade 8 Town Bridgeport
		Jada Daley	Grade 8 Town Bridgeport

Bridgeport High Horizons Magnet School Portia Scott-Thiam

4024	PT	2	Sturdiest of Them All
Student(s)		Kayla Keddo	Grade 8 Town Bridgeport
		Dea'ja Jones	Grade 8 Town Bridgeport

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Bridgeport John Winthrop School Susan Beres

5034 P7 2 Ready, Set, Blast Off!

Student(s) Amanda Teixeira

Grade 7 **Town** Bridgeport

Bridgeport Multicultural Magnet School Ms. Ciuflea

5032 P7 1 Natural Power

Student(s) John Paul Atehortua

Grade 7 **Town** Bridgeport

Bridgeport Multicultural Magnet School Ms. Ciuflea

2030 L7 3 Extracting Carbohydrates From Tubers

Student(s) Angelica Joyner-Cross

Grade 7 **Town** Bridgeport

Bridgeport Park City Magnet School Mrs.Simon

5527 P8 2 hoverboards

Student(s) Amir Alibali

Grade 8 **Town** Bridgeport

Bridgeport Park City Prep Charter School Ms.Boudreau

2010 L7 3 How Does Microwave Radiation Affect Organisms?

Student(s) Jenifer Bonilla

Grade 7 **Town** Bridgeport

Bridgeport Park City Prep Charter School Mr. Jonathan Jaekle

2542 L8 1 Larva -B-Gone: A Safer Way To Eliminate The Threat of Zika and Other Mosquito Borne Diseases

Student(s) Antonios Boudreau

Grade 8 **Town** Ansonia

Bridgeport Park City Prep Charter School Jonathan Jaekle

2517 L8 3 Will It Decay Or Stay?
(The decay of organic matter)

Student(s) Monica Cardenas

Grade 8 **Town** Bridgeport

Bridgeport Park City Prep Charter School Jonathan Jaekle

5516 P8 3 Toothpaste (Does Brand Matter?)

Student(s) Danney Gibbs

Grade 8 **Town** Stratford

Bridgeport Park City Prep Charter School Vasiliki Boudruea

2024 L7 3 Artificial Turf

Student(s) Alyssa Hall

Grade 7 **Town** Bridgeport

Bridgeport Park City Prep Charter School Mr.jaekle

1013 LT 1 Acid rain vs. algae

Student(s) Leanna Hosten

Grade 8 **Town** Bridgeport

Joy Longwa

Grade 8 **Town** Bridgeport

Bridgeport Park City Prep Charter School Vicky Boudreau

2004 L7 3 Mold? Food? Time

Student(s) Kourtney Payne

Grade 7 **Town** Bridgeport

Bridgeport Park City Prep Charter School Mrs. Boudreau

5039 P7 2 A Battery That Makes Cents

Student(s) Emily Ramirez

Grade 7 **Town** Bridgeport

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Bridgeport Park City Prep Charter School Vicky Boudreau

5007	P7	3	Cleaning Coins
Student(s) Parker Savo			Grade 7 Town Bridgeport

Bridgeport Park City Prep Charter School Jonathan Jeakle

5558	P8	2	Where is the paper airplane?
Student(s) Hairo Vivas-Nava			Grade 8 Town Bridgeport

Bridgeport Read School Nita Chai

5565	P8	2	How Does Fabric Softener Affect The Flammability Of Different Fabrics?
Student(s) Brian Luna			Grade 8 Town bridgeport

Bridgeport Roosevelt School Ms. Simon

5517	P8	3	Crystallization Creations
Student(s) Nicolas Daniels			Grade 8 Town Bridgeport

Bridgeport Warren Harding High School Dr. V. Gupta

3003	LS	3	The Investigation of Electrolytes
Student(s) Karim Alveranga			Grade 11 Town Bridgeport

Bristol St. Paul Catholic High School Mr. Aliberti

6047	PS	2	A Weather-Based Autonomous Rainwater Irrigation System
Student(s) Kamila Krawczuk			Grade 11 Town New Britain

Canton Canton High School Stephen Riley

6021	PS	3	Lending a Hand to Those Who Need it Most.
Student(s) Devin Kadis			Grade 12 Town Canton

Canton Canton High School Stephen Riley

6055	PS	3	So You Want to be a Rock Climber?
Student(s) Noah O'Leary			Grade 12 Town Avon

Canton Canton High School Stephen Riley

6075	PS	2	The Gravitational Effect Of The Galilean Satellites On The Shrinkage Of The Great Red Spot
Student(s) Adeline Obrzut			Grade 12 Town Canton

Canton Canton High School Stephen Riley

6100	PS	3	A Closer Look At Petroleum: Our World's Energy
Student(s) Gabriel Ortiz			Grade 12 Town Canton

Canton Canton High School Stephen Riley

6062	PS	3	An investigation of the structural integrity of wood species used for the tops of acoustic guitars.
Student(s) Ethan Porter			Grade 12 Town Canton

Cheshire Dodd Middle School Mr. Brian Lopez

5570	P8	2	"Organic Waste : A Renewable Source of a Energy"
Student(s) Medha Illindala			Grade 8 Town Cheshire

Cheshire St. Bridget School Michelle Carroll

2014	L7	1	Which Bioplastic is more Elastic
Student(s) Kavin Kathir			Grade 7 Town Cheshire

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Cheshire St. Bridget School Mrs Carroll
 2520 L8 1 Do the Eyes Have It?
Student(s) BriAnna McConnell **Grade** 8 **Town** Wolcott

Danbury Abbott Technical High School Andrew Ipkovich
 3536 LST 3 How much do we need to dilute the solution for it to still perm eyelashes?
Student(s) Kayla Ludovicy **Grade** 10 **Town** New Milford
 Cicily Telesco **Grade** 10 **Town** Southbury

Danbury Danbury High School Linda Kimble
 3011 LS 2 The Effect of Plasmid on the Transformation Efficiency of Component Escherichia Coli (E. coli)
Student(s) Sarah Johnson **Grade** 9 **Town** Danbury

Danbury Danbury High School Karen Lamb
 3007 LS 1 Prevention of Zika Virus Infection and Other Mosquito-Borne Diseases Using Environmentally Sound Control Methods
Student(s) Bradley Kerr **Grade** 9 **Town** Danbury

Danbury Immaculate High School Bridget Henry
 6050 PS 3 Liquid Reflectiveness and its effect on temperature
Student(s) Nolan Ames **Grade** 11 **Town** Danbury

Danbury St. Gregory the Great School Mrs. Christine Fahey
 4022 PT 3 Do Antennas Love Geometry?
Student(s) Stephanie Antonios **Grade** 7 **Town** Danbury
 Courtney- Rae McCormack **Grade** 7 **Town** Danbury
 Cassandra Logan **Grade** 7 **Town** New Milford

Danbury St. Gregory the Great School Mrs. Christine Fahey
 1004 LT 3 Strawberry vs Aloe
Student(s) Gianna Casturani **Grade** 7 **Town** Brookfield
 Caroline Merritt **Grade** 7 **Town** Danbury
 Giovanna Riccio-Weisse **Grade** 7 **Town** Danbury

Danbury St. Gregory the Great School Mrs. Christine Fahey
 1012 LT 2 Clean!... Chemical Free!...Protect your family!
Student(s) Aiden Coleman **Grade** 7 **Town** Danbury
 Joseph Wilson **Grade** 7 **Town** Danbury

Danbury St. Gregory the Great School Mrs. Christine Fahey
 4015 PT 2 The Effect of Temperature on Solar Cells
Student(s) Thomas Fahey **Grade** 8 **Town** Danbury
 Eric McNamara **Grade** 8 **Town** Danbury

Danbury St. Gregory the Great School Mrs. Fahey
 2506 L8 2 Are You Throwing Away Your Money?
Student(s) Gianna Fanelli **Grade** 8 **Town** Danbury

Danbury St. Gregory the Great School Mrs. Christine Fahey
 5003 P7 1 Wind Energy? I'm a Big Fan!
Student(s) Anna Flaherty **Grade** 7 **Town** New Fairfield

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Danbury St. Gregory the Great School Mrs. Fahey
 5560 P8 3 How does fabric softener affect the flammability of different fabrics
Student(s) Christopher Mezzetta **Grade 8** **Town** Danbury

Danbury St. Gregory the Great School Mrs. Christine Fahey
 4008 PT 2 Energizing Electrolytes
Student(s) Lindsay Ward **Grade 8** **Town** Danbury
Olivia Halas **Grade 8** **Town** Danbury

Danbury St. Joseph School Lydia Jabbour
 2003 L7 3 Baking Soda Experiment
Student(s) Tatiana Amaral **Grade 7** **Town** Danbury

Danbury St. Joseph School Miss Lydia Jabbour
 2538 L8 2 How does the sugar content of a banana changeover time?
Student(s) Robert Fontenelli **Grade 8** **Town** Danbury

Danbury St. Joseph School Miss. Lydia Jabbour
 5515 P8 2 Efficient Non-Toxic Dye-Sensitized Solar Cells
Student(s) Elias Haddad **Grade 8** **Town** Danbury

Danbury St. Joseph School Lydia Jabbour
 5019 P7 1 Eggceptional Geodes: An Eggsperiment
Student(s) Bronwyn Hyland **Grade 7** **Town** New Fairfield

Danbury St. Joseph School Ms. Jabbour
 2007 L7 2 The Effects of X-ray Radiation on Yeast
Student(s) Conor O'Keefe **Grade 7** **Town** Danbury

Danbury St. Joseph School Lydia Jabbour
 1011 LT 1 Which Household or Home-Made Cleaner Best Prevents Bacteria Growth.
Student(s) Matthew Riggs **Grade 8** **Town** Danbury
Steven Soto **Grade 8** **Town** Danbury

Danbury St. Joseph School Miss Jabbour
 5561 P8 3 SINGING WINE GLASSES AND BOTTLES
Student(s) Shelby Weed **Grade 8** **Town** Danbury

Danbury St. Joseph School Lydia Jabbour
 4003 PT 2 Apple Oxidation
Student(s) Nora Yastremski **Grade 8** **Town** Danbury
Abby Giansiracusa **Grade 8** **Town** Danbury

Danbury Westside Middle School Academy Dr. Frank LaBanca
 2514 L8 3 Bacteria Morphology and Concentration in yogurt
Student(s) Jason Campisi **Grade 8** **Town** Danbury

Danbury Westside Middle School Academy Jonathan Neuhausel
 5531 P8 1 The Effects of Different Flours on the Breaking Point and Decomposition Rate of an Edible Spoon.
Student(s) Sahana Chinthak **Grade 8** **Town** Danbury

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Danbury Westside Middle School Academy Jonathan Neuhausel
2532 L8 2 How does the ratio of gala apple DNA to winesap apple DNA increase the speed the plants grow at?
Student(s) Carter Densk **Grade 8** **Town** Danbury

Danbury Westside Middle School Academy Andrea LaRosa
2537 L8 3 Testing CNT (Carbon Nanotubes) to filter E. coli Infected Water Samples
Student(s) Lasyapriya Josyula **Grade 8** **Town** Danbury

Danbury Westside Middle School Academy Jon Nehausel
5503 P8 2 Examining the impact of window moisture on the strength of a wifi signal.
Student(s) Jordan Lema **Grade 8** **Town** Danbury

Danbury Westside Middle School Academy Jon Neuhausel
2033 L7 1 Pharmaceuticals In Our Water: How Can These Hazardous Chemicals Be Filtered?
Student(s) Khushi Parikh **Grade 7** **Town** Danbury

Danbury Westside Middle School Academy Mr. Neuhausel
5025 P7 1 A study on soil product following bio degradation of Styrofoam by tenebrio
Student(s) Cassandra Plank Pinho **Grade 7** **Town** Danbury

Danbury Westside Middle School Academy Mr. Neuhausel
5538 P8 2 Creating an Affordable Homemade Meter to Measure Outdoor Levels of Carbon Dioxide
Student(s) Nicholas Raslavsky **Grade 8** **Town** Danbury

Danbury Westside Middle School Academy Jonathan Neuhausel
5568 P8 1 Optimizing Fin Design For Compressed Air Water Rockets
Student(s) Gryffin Syme **Grade 8** **Town** Danbury

Danbury Wooster School Shumin Guo
6011 PS 2 A Novel Approach for Assessing Alzheimer's Disease Risk through Natural Language Processing-Based Analysis of Aphasic Patterns
Student(s) Daniel Michael **Grade 11** **Town** Danbury

Darien Darien High School David Lewis
3147 LS 2 Cloning of the IRES Gene for Targeted Viral Therapy
Student(s) Colin Banks **Grade 12** **Town** Darien

Darien Darien High School Christine Leventhal
6031 PS 2 Determining the Optimal Implementation for Secure Multiparty Computation of the Logistic Function
Student(s) Andrew Benz **Grade 12** **Town** Darien

Darien Darien High School Guy Pratt
6094 PS 3 Analyzing the Accuracy of a Two Queue Simulation of a Polling Station in Modeling Voter Wait Times
Student(s) Brendan Berrigan **Grade 12** **Town** Darien

Darien Darien High School David Lewis
3059 LS 3 Service Use in Autism Spectrum Disorder: Limits on and Challenges of Health Services and Service Dissatisfaction among Adults with Autism
Student(s) Claire Borecki **Grade 12** **Town** Darien

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Darien Darien High School David Lewis
3047 LS 3 The Role of Rigosertib Treatment in the Expression and Localization of RASSF1 in RASSF1 Transfected Cancer Cells

Student(s) William Brandon **Grade** 12 **Town** Darien

Darien Darien High School Aruna Balasubramanian
6035 PS 3 A Radio Transceiver-Based Wearable Device to Help Visually Impaired Users Avoid Vehicles

Student(s) Escher Campanella **Grade** 12 **Town** Darien

Darien Darien High School Juri Miyamae
3067 LS 2 Sex Determination in Ostriches Through the Foramen Magnum and Implications for Dinosaurs

Student(s) Katherine Cunningham **Grade** 12 **Town** Darien

Darien Darien High School Mr. Pratt
6009 PS 2 The Efficacy of Lichens as Bioindicators of Air Pollution

Student(s) Ariel Gianukakis **Grade** 12 **Town** Darien

Darien Darien High School Guy Pratt
3026 LS 3 Cognitive Strengths and Weaknesses of Adults with Reading Disabilities

Student(s) Catherine Gorey **Grade** 12 **Town** Darien

Darien Darien High School Mrs. Leventhal
3140 LS 3 Developing a Robust Phylogeny of Xyridaceae and Closely Related Families

Student(s) Will Granath **Grade** 12 **Town** Darien

Darien Darien High School Mr. Pratt
6072 PS 2 Finding An Efficient Scalable Gray Water Bioremediation Treatment System

Student(s) Courtney Lowe **Grade** 12 **Town** Darien

Darien Darien High School David Lewis
3018 LS 2 IgM Expands Regulatory T Cells and Demonstrates Therapeutic Potential for Type 1 Diabetes

Student(s) Caleigh Morr **Grade** 12 **Town** Darien

Darien Darien High School Guy Pratt
6087 PS 2 Determining Salient Control Decisions of the Actuated Spring Loaded Inverted Pendulum Traversing Slippery Terrain Using a Sliding Mass Model

Student(s) Samuel Pfrommer **Grade** 12 **Town** Darien

Darien Darien High School Mr. David Lewis
3095 LS 3 The effect of elevated atmospheric carbon dioxide levels on body size in Drosophila melanogaster

Student(s) Ari Singer-Freeman **Grade** 11 **Town** Darien

Darien Darien High School Mrs. Christine Leventhal
3107 LS 3 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

Student(s) Johnathan Stimpson **Grade** 12 **Town** Darien

East Hartford St. Christopher School Dr. James Tanguay
5502 P8 2 Rusty Steel: How Acids Affect the Rate of Corrosion

Student(s) Isaiah Albert **Grade** 8 **Town** East Hartford

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Preliminary Judging Results

[SchTown] [School] [Teacher]
[Proj#] [FCat] [Honors] [Project Title] **1st Honors are Finalists**

East Hartford St. Christopher School Dr. James Tanguay

5567	P8	2	Battery Power
Student(s) Alexander Notis			Grade 8 Town East Hartford

Enfield St. Martha School Lorry Potvin

5573	P8	2	Solar Producing in the Polar
Student(s) Matthew Emerson			Grade 8 Town Broad Brook

Fairfield Fairfield College Preparatory School Ms. Kiel

6525	PST	3	Energy conservation street lamp
Student(s) Haochen He			Grade 10 Town Fairfield
Daqin Lin			Grade 11 Town Fairfield
Shu Guo			Grade 10 Town Fairfield

Fairfield Fairfield College Preparatory School Deborah Kiel

6054	PS	2	The Application of Object Tracking in Surgery Robotics
Student(s) Hanxuan Mo			Grade 12 Town Fairfield

Fairfield Fairfield College Preparatory School Ms. Kiel

3126	LS	1	An investigation into the use of fruit peel filters to reduce the level of water contamination.
Student(s) Jonathan Siveyer			Grade 12 Town Monroe

Fairfield Fairfield College Preparatory School Ms. Kiel

6045	PS	3	Deciphering emotions through a voice's physical characteristics
Student(s) Haoxiang Zhang			Grade 11 Town Fairfield

Fairfield Fairfield Ludlowe High School Mr. Mirrer

6036	PS	3	Does Industry Concentration Affect Variability of Human Capital Investment?
Student(s) Srihita Mediboina			Grade 11 Town Fairfield

Fairfield Notre Dame Catholic High School Kathy Almeida

3005	LS	3	Bioassay investigation of organic and chemical fertilizers with Daphnia and Tardigrades
Student(s) Benjamin Clark			Grade 10 Town Bridgeport

Farmington Irving A. Robbins Middle School Kerry Visone

5530	P8	1	Making concrete more energy efficient and lightweight.
Student(s) Angela Sadlowski			Grade 8 Town Unionville

Fishers Island Fishers Island School Carol Gilles

3510	LST	2	Biorock: Calcium Carbonate Deposition and Oyster growth in the Fishers Island Sound
Student(s) Charles Snyder			Grade 12 Town Stonington
Thaddeus Allen			Grade 12 Town New London

Fishers Island Fishers Island School Carol Giles

6039	PS	3	Bioluminescent Pyrocystis Fusiformis in a Changing Environment
Student(s) Caroline Toldo			Grade 11 Town Fishers Island

Fishers Island Fishers Island School Carol Giles

6081	PS	3	Wine Glasses and What Affects Their Resonant Frequency
Student(s) Natalie Vail			Grade 11 Town Mystic

[SchTown] [School] [Teacher]
 [Proj#] [FCat] [Honors] [Project Title] **1st Honors are Finalists**

Glastonbury Glastonbury High School Diane Pintavalle
 6085 PS 1 Functionalization of Gold Nanoparticles with various Amino Acids under Different pH Environment
Student(s) Danielle Cai **Grade 11** **Town Glastonbury**

Glastonbury Glastonbury High School Ms. Diane Pintavalle
 3121 LS 3 Enzymatic Reactions at Nanoparticle surfaces: Studying the dependence of substrate accessibility on the efficiency of enzymatic ligation
Student(s) Jamie Cheung **Grade 12** **Town Glastonbury**

Glastonbury Glastonbury High School Ms. Diane Pintavalle
 3035 LS 3 IDENTIFYING SMALL MOLECULE TRANSLESION SYNTHESIS PATHWAY INHIBITORS TARGETING REV1-CT PROTEIN-PROTEIN INTERACTION
Student(s) Samantha Chow **Grade 12** **Town Glastonbury**

Glastonbury Glastonbury High School Pintavalle
 6012 PS 2 PROPERTIES OF POTENTIAL REGULATED ION CHANNELS
Student(s) Thomas Ersevim **Grade 11** **Town Glastonbury**

Glastonbury Glastonbury High School Diane Pintavalle
 6069 PS 3 THE DESIGN AND SYNTHESIS OF [Ru(tBu₃-tpy)(5-methyl-2-(pyridin-2-yl)-4,5-dihydrooxazole)Cl]PF₆ AND ITS EFFECT ON CO₂ REDUCTION
Student(s) Tamashi Hettiarachchi **Grade 11** **Town Glastonbury**

Glastonbury Glastonbury High School Diane Pintavalle
 3069 LS 2 Effect of Regulation of Autophagy on the Hedgehog Signaling Pathway in Paget's Disease of the Bone
Student(s) Reshana Homma **Grade 12** **Town Glastonbury**

Glastonbury Glastonbury High School Diane Pintavalle
 6066 PS 2 Correlation of CTNNB1 Gene and Ossifying Fibroma (OF)
Student(s) Niyati Hora **Grade 11** **Town Glastonbury**

Glastonbury Glastonbury High School Diane Pintavalle
 3083 LS 2 Analysis of Prey Composition in Ninespine Stickleback (Pungitius pungitius) Infected With Cestode Parasite (Schistocephalus pungitii)
Student(s) Mitchell Johnson **Grade 11** **Town Glastonbury**

Glastonbury Glastonbury High School Diane Pintavalle
 3023 LS 2 INTERACTION BETWEEN HDM2 AND THE UBL3 DOMAIN OF USP7
Student(s) Soham Kale **Grade 12** **Town Glastonbury**

Glastonbury Glastonbury High School Diane Pintavalle
 3052 LS 2 Flu Induced Alterations In Muscle Cytokine Expression Due To Aging
Student(s) Ronak Mahatme **Grade 12** **Town Glastonbury**

Glastonbury Glastonbury High School Diane Pintavalle
 3042 LS 3 Genomic Analysis of Osteosarcoma to Identify Novel Key Regulatory Pathways in Tumorigenesis
Student(s) Samarth Venkata Menta **Grade 11** **Town Glastonbury**

Glastonbury Glastonbury High School Mr. Jerome Maas
 3100 LS 3 Natural antimicrobials: Alternatives to antibiotics in the control of ear infections
Student(s) Athulya Narayanan **Grade 10** **Town Glastonbury**

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Preliminary Judging Results

[SchTown] [School] [Teacher]
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Glastonbury Glastonbury High School Diane Pintavalle

3150	LS	2	A New Solution for Prevention of Symptoms of Lactose Intolerance
Student(s) Katherine Vartenigian			Grade 12 Town Glastonbury

Greens Farms Greens Farms Academy Mathieu Freeman

3050	LS	2	The Effect of Sleep Deprivation on Verbal and Visual Memory Retention in High School Adolescents
Student(s) Reed Bingham			Grade 12 Town Fairfield

Greens Farms Greens Farms Academy Mathieu Freeman

3070	LS	2	Using a 3-D printed intramuscular auto-injector to minimize costs for administering huBuChE and pharmaceutical grade drugs to counteract nerve agent poisoning
Student(s) Luke Duffy			Grade 12 Town Wilton

Greens Farms Greens Farms Academy Mathieu Freeman

3113	LS	2	Anticorrosive Coatings on AZ31 Magnesium Alloy to Reduce Degradation Rate for Metallic Medical Implants
Student(s) Anish Kosanam			Grade 12 Town Stamford

Greens Farms Greens Farms Academy Mathieu Freeman

6061	PS	1	Comparative Study of Self-Designed Direct Access Formic Acid Fuel Cell (DFAFC) vs Hydrogen Fuel Cell
Student(s) Edward Lopez-Wortman			Grade 12 Town Stamford

Greens Farms Greens Farms Academy Mathew Freeman

3136	LS	3	Improvements on design of biologically inspired modular prosthetics for general use.
Student(s) Robert Marcus			Grade 12 Town New Canaan

Greens Farms Greens Farms Academy Mathieu

6076	PS	2	Designing and Implementing a Flexible Support System for the Finger Injury Prevention in High-Impact Sports and Applications
Student(s) Charles Thompson			Grade 12 Town Southport

Greenwich Brunswick School Dana Montanez

6505	PST	1	Using Piezoelectricity to Harness Energy into a Battery
Student(s) Harold Barringer			Grade 10 Town Greenwich
Thomas Foley			Grade 10 Town Greenwich

Greenwich Brunswick School Dana Montanez

3513	LST	1	Analysis of Environmental Stress: The effect on Restriction Enzyme Analysis of Asterina DNA
Student(s) Chris Burdick			Grade 11 Town Riverside
Greyson Wolfram			Grade 11 Town Riverside
Matt Restieri			Grade 11 Town Riverside

Greenwich Brunswick School Dana Montanez

6083	PS	2	Flow Rate vs. Hydroelectric Kilowatts Produced: A novel approach using Pelton wheels and land-based turbines in an effort to preserve surrounding ecosystems
Student(s) Edward Camel			Grade 11 Town Greenwich

Greenwich Brunswick School Dana Montanez

3525	LST	1	Methylmercury concentrations in Fish Tissue: A comparative analysis of Long Island Sound v. the Atlantic Ocean
Student(s) Alberto Delgado			Grade 10 Town Riverside
Ryan Mulshine			Grade 10 Town Greenwich

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Preliminary Judging Results

[SchTown] [School] [Teacher]
[Proj#] [FCat] [Honors] [Project Title] **1st Honors are Finalists**

Greenwich Brunswick School Montanez
3040 LS 2 An Investigation of Halophilic Microbes to Bio-remediate Brine Backflow in Soil Adjacent to Hydraulic Fracking Wells
Student(s) Jack Driscoll **Grade** 11 **Town** Greenwich

Greenwich Brunswick School Dana Montanez
6034 PS 2 The Concept of Foiling
Student(s) William George **Grade** 10 **Town** Greenwich

Greenwich Brunswick School Dana Montanez
6502 PST 2 An Investigation of Conductive Graphene Dispersion: optimizing heat retention, water resistance, strength and durability of fabrics
Student(s) Matthew Jacobson **Grade** 11 **Town** Greenwich
Nick Saah **Grade** 11 **Town** Darien

Greenwich Brunswick School Dana Montanez
6102 PS 2 An Investigation of Similarities Between Light Curves of Intrinsic Variable Stars
Student(s) Thomas Kimberlin **Grade** 10 **Town** Greenwich

Greenwich Brunswick School Dana Montanez
6044 PS 3 Optimizing Efficiency of Long Distance Tube-And-Pod-Based Low Friction Transportation Systems
Student(s) Wesley Peisch **Grade** 11 **Town** Greenwich

Greenwich Brunswick School Dana Montanez
3063 LS 2 Using Electrical Current as an Antimicrobial
Student(s) Matthew Pillari **Grade** 10 **Town** Greenwich

Greenwich Brunswick School Dana Montanez
3015 LS 2 An Investigation of Natural Alternatives to Chlorine When Treating Microbial-Contaminated Water
Student(s) Asher Porphy **Grade** 10 **Town** Harrison

Greenwich Brunswick School Dana Montanez
3056 LS 3 Cellular Cultivation Matrix Created from Collagen Found in Starfish
Student(s) Timothy Saunders **Grade** 10 **Town** New Canaan

Greenwich Brunswick School Dana Montanez
3542 LST 1 Human fingerprints and Gecko Setae: A fusion of configurations to create a super-grip, non-slip surface
Student(s) Thacher Scannell **Grade** 11 **Town** Stamford
Avi Mukherjee **Grade** 11 **Town** Stamford

Greenwich Greenwich Catholic School Mrs. Lutz
4009 PT 2 Take Cover
Student(s) Joshua DeSouza **Grade** 8 **Town** Stamford
William Catalani **Grade** 8 **Town** Greenwich

Greenwich Greenwich Catholic School Mrs. Carol Lutz
2012 L7 2 BITE BRIGHT a Natural Tooth Paste
Student(s) Monica Marino **Grade** 7 **Town** Riverside

Greenwich Greenwich Catholic School Carol Lutz
5002 P7 1 Mass Maglev Manufacturing
Student(s) Patrick McHugh **Grade** 7 **Town** Stamford

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Preliminary Judging Results

[SchTown] [School] [Teacher]
[Proj#] [FCat] [Honors] [Project Title] **1st Honors are Finalists**

Greenwich Greenwich Catholic School Mrs. Lutz

4028 PT 1 A Helping Hand

Student(s) **Gianna Saviano** **Grade 8** **Town** Stamford

Sofina Tillman Singh **Grade 8** **Town** Stamford

Greenwich Greenwich High School Andrew Bramante

6040 PS 1 Application of flexible PVDF nanofibrous membrane coated carbon fiber filter for tunable low cost solvent recycling

Student(s) **Alex Araki** **Grade 11** **Town** Greenwich

Greenwich Greenwich High School Andrew Bramante

3032 LS 1 Crowd-Sourced Detection and Mapping of Nitrate Water Pollutants via a Mobile Web-Based Image Analysis System

Student(s) **Luca Barcelo** **Grade 11** **Town** Old Greenwich

Greenwich Greenwich High School Andrew Bramante

3074 LS 1 Remediation of Beryllium Heavy Metal via Phaseolus vulgaris Hyperaccumulation

Student(s) **Manuel Carballo** **Grade 12** **Town** Greenwich

Greenwich Greenwich High School Andrew Bramante

3125 LS 1 PDE-4 Inhibitor-Assisted Antibiotic Suppression of Borrelia Biofilm Growth for Treatment of Chronic Lyme

Student(s) **Sophia Chow** **Grade 11** **Town** Old Greenwich

Greenwich Greenwich High School Mr. Bramante

6053 PS 2 Renewable Energy Generation of a Hybridized Saltwater Electrochemical and Hydrokinetic Energy System

Student(s) **Bennett Hawley** **Grade 10** **Town** Cos Cob

Greenwich Greenwich High School Andrew Bramante

3064 LS 2 A New Precipitate Assay relating to Palladium Blood Contaminants for Early Detection of Chagas

Student(s) **Manuel Lopez** **Grade 11** **Town** Riverside

Greenwich Greenwich High School Andrew Bramante

6074 PS 3 Reliably Jammed Disk Packing: A Novel Feature of a Classic Geometry Problem

Student(s) **Steven Ma** **Grade 11** **Town** Greenwich

Greenwich Greenwich High school Andrew Bramante

3127 LS 2 A customizable, 9DB1 Deoxyribozyme based system for the controlled production of proteins via artificial logic on the molecular scale

Student(s) **Collin Marino** **Grade 10** **Town** Greenwich

Greenwich Greenwich High School Mr. Bramante

3117 LS 1 Targeted Anticancer Properties of Honey Bee Melittin via Cell Surface Lipid Disruption

Student(s) **Dante Grace Minichetti** **Grade 11** **Town** Greenwich

Greenwich Greenwich High School Andrew Bramante

6010 PS 1 Novel Low-Temperature Carbon Capture Using Aqueous Ammonia and Organic Solvents

Student(s) **Ethan Novek** **Grade 12** **Town** Greenwich

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[SchTown] [School] [Teacher]
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Greenwich Greenwich High School Andrew Bramante
3025 LS 2 Novel Active Immunization Approach for Preventing Substance Addiction via High Density Trypanosoma
brucei Variant Surface Glycoprotein Arrays
Student(s) Adam Roitman **Grade 12** **Town** Greenwich

Greenwich Greenwich High School Andy Bramante
6063 PS 1 Carbon Capture and Storage via Silver Nanoparticle Catalyzed Hydration of Carbon Dioxide
Student(s) Agustina Stefani **Grade 12** **Town** Greenwich

Greenwich Greenwich High School Mr. Bramante
3109 LS 1 Platelet Membrane Coating Bio-interfacing of Pravastatin to Increase Removal of Arterial Plaque
Student(s) Haley Stober **Grade 11** **Town** Old Greenwich

Greenwich Greenwich High School Andrew Bramante
3010 LS 1 Rapid Colorimetric Field Monitoring System for Zika Virus in Mosquito Populations via DNAzyme-
Functionalized Gold Nanoparticles
Student(s) Rahul Subramaniam **Grade 10** **Town** Cos Cob

Greenwich Greenwich High School Andrew Bramante
3086 LS 1 Detection of Premalignant Pancreatic Cancer via Computational Analysis of Serum Proteomic Profiles
Student(s) Shobhita Sundaram **Grade 11** **Town** Greenwich

Greenwich Greenwich High School Mr. Andrew Bramante
6033 PS 2 A Novel N-Doped Carbon Nanotube/Copper Electrode for the Reduction of CO₂ to Biofuel
Student(s) Michelle Woo **Grade 11** **Town** Riverside

Greenwich Greenwich High School Andrew Bramante
6015 PS 1 Development of a CNT/ZnO/TiO₂ membrane for visible-light induced photocatalytic filtration of water-
borne organic and bacterial pollutants
Student(s) Michelle Xiong **Grade 11** **Town** Riverside

Greenwich Greenwich High School Mr. Andy Bramante
3060 LS 2 Cost-Effective, Portable Paper-Based Diagnosis of Alzheimer's Disease: Targeting A β Oligomers Using
Curcumin-PLGA-Ceria Nanoconjugates as Artificial Biomarkers
Student(s) William Yin **Grade 12** **Town** Riverside

Groton Sacred Heart School Larry Fitzgerald
5022 P7 3 Strength of Electromagnets
Student(s) Samuel Hammond **Grade 7** **Town** New London

Groton Sacred Heart School Mrs. Logan / Mr. Fitzgerald
2031 L7 2 WHICH HEALTHY SNACK HAS THE MOST DNA?
Student(s) Hannah Langer **Grade 7** **Town** Groton

Groton Sacred Heart School Larry Fitzgerald, Principal
5536 P8 2 INDUCED LEVITATION AND MOVEMENT APPLYING LENZ'S LAW
Student(s) Michael Luzzio **Grade 8** **Town** Groton

Groton Sacred Heart School Dennis Pelletier
2027 L7 2 The Effect of an Acidic Environment on Flower Seed Germination
Student(s) Rory Pelletier **Grade 7** **Town** Gales Ferry

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Preliminary Judging Results

[SchTown] [School] [Teacher]
 [Proj#] [FCat] [Honors] [Project Title] **1st Honors are Finalists**

Groton Sacred Heart School Mrs. Rosha
 5011 P7 3 Bombs
Student(s) Emma Reilly **Grade 7** **Town** Gales Ferry

Groton Sacred Heart School Kelli Hammond
 5566 P8 3 Stains Away!
Student(s) Ariana Timmerman **Grade 8** **Town** Groton

Hamden Hamden High School Mr. Danny Martins
 3119 LS 2 PAD4 Inhibition: A Novel Treatment for Rheumatoid Arthritis
Student(s) Akshar Agarwal **Grade 10** **Town** Hamden

Hamden Hamden High School Sophia Michalatos
 3149 LS 1 Permanent Inactivation of the HIV Provirus via CRISPR Gene-Editing
Student(s) Aakshi Agarwal **Grade 12** **Town** Hamden

Hamden Hamden High School Sophia Michalatos
 3092 LS 3 Caffeine's Effect on Anxiety in Teens
Student(s) Zoe Bassett **Grade 10** **Town** Hamden

Hamden Hamden High School Sophia Michalatos
 3134 LS 3 The Effect of Music on Reading Comprehension and Mathematical Calculations
Student(s) Linnea Sirch **Grade 10** **Town** Hamden

Hamden Hamden High School Sophia Michalatos
 3028 LS 2 The Future of Bio-Sand Filtration Systems: The Incorporation of Water Hyacinths (Eicchornia Crassipes) To Remove Arsenic in Contaminated Drinking Water
Student(s) Rockib Uddin **Grade 12** **Town** Hamden

Hamden Hamden Middle School Michelle DeLucia
 5545 P8 1 Constructing a CoreXY Dual Extrusion Fused Filament Fabrication Apparatus
Student(s) Conner Larocque **Grade 8** **Town** Hamden

Hamden Hamden Middle School Daniel Sgrigneri
 5524 P8 2 Oobleck
Student(s) Christina Macci **Grade 8** **Town** Hamden

Hamden Sacred Heart Academy Elizabeth Christophy
 6065 PS 3 The Impact of Methyl Ester in Oil on Swimsuit Speed
Student(s) Katie Gray **Grade 10** **Town** Oxford

Hamden Sacred Heart Academy Elizabeth Christophy
 6067 PS 1 Computer-Aided Bleeding Detection in Wireless Capsule Endoscopy Images Using Deep Convolutional Neural Networks
Student(s) Eunji Lee **Grade 11** **Town** Trumbull

Hamden Sacred Heart Academy Mrs. Nelson
 3148 LS 3 An Athlete's Guide to Picking a Marker to Write on Their Skin with
Student(s) Brisa Mendoza **Grade 9** **Town** Hamden

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[SchTown] [School] [Teacher]
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Hamden Sacred Heart Academy Mrs. Susan Nelson
3108 LS 2 Heat from Global Warming Affecting Bioluminescence in Pyrocystis fusiformis
Student(s) Julianna Milidantri **Grade 9** **Town** Durham

Hamden Sacred Heart Academy Dr. Sibani Sengupta
3142 LS 2 Adherence Rates of Escherichia coli to Mono-filament, Multi-filament, and Barbed Sutures
Student(s) Adalyn Schommer **Grade 9** **Town** Cheshire

Hamden Sacred Heart Academy Dr. Sengupta
3024 LS 2 The Effects of Blue Light Technology on the Circadian Rhythms of Adolescents
Student(s) Amy Ziobron **Grade 11** **Town** Cheshire

Hartford Environmental Sciences Magnet School at Mary Becca Hays
2009 L7 3 Don't Get Hooked!
Student(s) Noel Carrasquillo **Grade 7** **Town** New Britain

Hartford Environmental Sciences Magnet School at Mary Rebecca Hays
1005 LT 2 Vulnerability of a Human's Internal Rhythm
Student(s) Alennie Cosme **Grade 8** **Town** Hartford
Keegan Miller **Grade 8** **Town** Bristol

Hartford Environmental Sciences Magnet School at Mary Rebecca Pearson Hays
2020 L7 2 pH Filtered Mussels
Student(s) Nathan Hockley **Grade 7** **Town** Burlington

Hartford Environmental Sciences Magnet School at Mary Kirsten Devlin
2013 L7 3 how age affects memory
Student(s) Shakiara Levest **Grade 7** **Town** Hartford

Hartford Environmental Sciences Magnet School at Mary Rebecca Hays
2519 L8 3 Is That Enough Salt for You?
Student(s) Adela Lopez **Grade 8** **Town** Hartford

Hartford Environmental Sciences Magnet School at Mary Rebecca Hays
2534 L8 1 The Effects of Food on Breeding Xiphophorus Herrerii
Student(s) Natalie Reeves **Grade 8** **Town** Southington

Hartford Environmental Sciences Magnet School at Mary Kirsten Devlin
2501 L8 2 Hydroponics: Floating or Flowing?
Student(s) Connor Rego **Grade 8** **Town** Winsted

Hartford Environmental Sciences Magnet School at Mary Kirsten Devlin
2002 L7 3 How many bacteria are on door knobs?
Student(s) Yanayra Rosa **Grade 7** **Town** Newington

Hartford Environmental Sciences Magnet School at Mary Mr. Clark
2509 L8 2 Growin' in the Wind
Student(s) Tyler Schloss **Grade 8** **Town** Cromwell

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[SchTown] [School] [Teacher]
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Hartford Prince Technical High School Paula Butterfield

3539 LST 3 Passive Solar Heating

Student(s) Zukora Burke

Grade 10 Town Hartford

Fernanda Hernandez

Grade 10 Town Hartford

Hartford Prince Technical High School Marie Ditaranto

6503 PST 3 Bamboo brick

Student(s) Mariely Rodriguez

Grade 10 Town Hartford

Jeremy Montalvo

Grade 10 Town Hartford

Hartford Sport and Medical Sciences Academy Christine Demusz

5508 P8 1 Natural Plastic: Milk Plastic Biodegradation vs. Commercial Plastic Degradation

Student(s) Madison Lee

Grade 8 Town Rocky Hill

Hebron Oei Homeschool Ellen McHugh

5537 P8 1 Developing a Prototype Atmospheric Water Generator System as a Clean, Safe and Sustainable Water Source

Student(s) John Oei

Grade 8 Town Hebron

Kensington St. Paul School Miss Michalak

5031 P7 2 The Unspillable Table Setting

Student(s) Meaghan Bertolami

Grade 7 Town Berlin

Kensington St. Paul School Ms. Michalak

5012 P7 2 It is Rocket Science

Student(s) Jack Szeghy

Grade 7 Town Southington

Kensington St. Paul School Ms. Michalak

5551 P8 3 Hot Socks

Student(s) MacKenzie Van Buren

Grade 8 Town New Britain

Lakeville The Hotchkiss School Richard Kyung

6030 PS 2 A New Fast Algorithm for Finding Eigenvalues in Vibrating Structures

Student(s) Seouk Jun Kim

Grade 11 Town Lakeville

Madison Daniel Hand High School Madhuparna Roychoudhury

6025 PS 2 Capturing and Converting CO2 to High Value Chemicals via Renewable Energy

Student(s) Ankita Roychoudhury

Grade 12 Town Madison

Madison Walter Polson Middle School Anna Chang

5571 P8 2 Multi-color CCD photometry of the variable star Delta Cephei using a home-built six inch reflecting telescope

Student(s) Aimee Chang

Grade 8 Town Madison

Meriden ACES Thomas Edison Middle School Todd Solli

4014 PT 3 Fats In Cooking Oils

Student(s) Ariana Alston

Grade 7 Town Meriden

Selena Galvan

Grade 7 Town Meriden

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[SchTown] [School] [Teacher]
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Meriden ACES Thomas Edison Middle School Todd Solli
4017 PT 3 The Heat Is On!
Student(s) **Adriana Aponte** Grade 8 Town Meriden
Majda Adnane Grade 8 Town Meriden

Meriden ACES Thomas Edison Middle School Todd Solli
5554 P8 2 The Relationship Between Aerodynamic Shape and Wind Drag
Student(s) **Kaya Cook** Grade 8 Town Middletown

Meriden ACES Thomas Edison Middle School Todd Solli
2541 L8 3 Well Water vs Tap Water and its Effect on Plant Growth
Student(s) **Shontai Cross** Grade 8 Town Meriden

Meriden ACES Thomas Edison Middle School Todd Solli
4005 PT 3 Paper Towel Strength
Student(s) **Tyler Curtiss** Grade 8 Town Middletown
Garrett Kronenberger Grade 8 Town Middletown

Meriden ACES Thomas Edison Middle School Todd Solli
4011 PT 1 To Sensor or Not to Sensor.
Student(s) **Madison Ehmka** Grade 8 Town Meriden
Chloe DiChello Grade 8 Town Meriden

Meriden ACES Thomas Edison Middle School Todd Solli
5005 P7 3 Gravity and Air Resistance
Student(s) **Nicole Grabinski** Grade 7 Town Middletown

Meriden ACES Thomas Edison Middle School Todd Solli
1014 LT 1 Extracting DNA from fruit
Student(s) **Brianna Oliveras** Grade 8 Town Meriden
Mikaela Mitchell Grade 8 Town Meriden

Meriden ACES Thomas Edison Middle School Todd Solli
1007 LT 3 Dancing Plants
Student(s) **Dominic Ponce** Grade 8 Town Meriden
Elyssa West Grade 8 Town Meriden

Meriden ACES Thomas Edison Middle School Todd Solli
2035 L7 3 Meat Eater
Student(s) **Loren Tuck** Grade 7 Town Waterbury

Meriden St. Joseph School Mr. Tim Coleman
5550 P8 3 Suspense of the Popcorn
Student(s) **Natalie Camera** Grade 8 Town Meriden

Meriden St. Joseph School Tim Coleman
2015 L7 2 Secret Life of Trees on Sweet Birch Dr.
Student(s) **Dylan Gay** Grade 7 Town Meriden

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[SchTown] [School] [Teacher]
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Meriden St. Joseph School Mr. Coleman
 5512 P8 3 What water bottle brand will keep water the coolest.
Student(s) Khalia Hunt **Grade 8** **Town Meriden**

Meriden St. Joseph School Mr. Coleman
 5526 P8 3 Getting the most out of your batter
Student(s) colin Ivers **Grade 8** **Town Meriden**

Meriden St. Joseph School Timothy Coleman
 5036 P7 1 What kind of water is the purest?
Student(s) Ryan Killeen **Grade 7** **Town Meriden**

Meriden St. Joseph School Mr. Timoty Coleman
 5021 P7 2 Greasy Times and Triple Enzymes
Student(s) Jake Ryder **Grade 7** **Town Meriden**

Middlebury Memorial Middle School Allyson Debe
 2531 L8 3 Does Intra-articular Hip Steroid Injection Increase The Rate of Infection With Subsequent Total Hip Replacement Surgery?
Student(s) Alexander Kennon **Grade 8** **Town Middlebury**

Milford Platt Technical High School Mrs. Hart
 6522 PST 3 Project W- Domestic water recovery system
Student(s) Christian Haupt **Grade 10** **Town West Haven**
Christian Ramos **Grade 10** **Town Stratford**

Monroe St. Jude School Mrs. Shea
 2008 L7 2 What Level of Acidity Is Best for Growing Simple Plants?
Student(s) Mia Sadlouskos **Grade 7** **Town Monroe**

Monroe St. Jude School Mrs. Shea
 5518 P8 3 Magnetic Power
Student(s) Francesco Thomas **Grade 8** **Town Monroe**

New Britain CREC Academy of Science and Innovation Peter Wik
 6101 PS 2 Producing bioethanol from cellulose
Student(s) Hardhik Kummamuru **Grade 10** **Town Windsor Locks**

New Britain Goodwin Technical High School Steve Donaghy
 6528 PST 2 Solar powered survival Jacket with a organic type battery back up. to recharge or power a cell phone or LED lights.
Student(s) Daniel Garcia **Grade 10** **Town New Britain**
Juan Ospina **Grade 10** **Town New Britain**
Daneirys Rivera **Grade 10** **Town Bristol**

New Britain Goodwin Technical High School Mr. Menard
 6524 PST 3 The LD T.E.P System
Student(s) Dante Marrone **Grade 10** **Town Bristol**
Lukas Schneider **Grade 10** **Town Farmington**

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Preliminary Judging Results

[SchTown] [School] [Teacher]
[Proj#] [FCat] [Honors] [Project Title] **1st Honors are Finalists**

New Canaan St. Aloysius School deborah phillips

4027 PT 1 Mars Exploration

Student(s) Kaloyan Dimitrov **Grade 7** **Town** Norwalk
Andrew Tully **Grade 7** **Town** Norwalk
Alex Lanzillotti **Grade 7** **Town** Stamford

New Canaan St. Aloysius School Mrs. Phillips

4002 PT 2 Future of Filtration

Student(s) Molly McAndrew **Grade 8** **Town** Stamford
Veronica Butler **Grade 8** **Town** South Salem
Helen Mahoney **Grade 8** **Town** Stamford

New Haven Bruder Homeschool John Bruder

6051 PS 2 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.

Student(s) Ben Bruder **Grade 10** **Town** New Haven

New Haven Engineering Science University Magnet School Rodger Rushworth

5541 P8 2 How To Make A Water Filter That Will Be More Efficient

Student(s) Shankara Abbineni **Grade 8** **Town** Milford

New Haven Engineering Science University Magnet School Roger Rushworth

6097 PS 2 Developing a Novel Energy Harvesting Device using Paint-on Fabrication Techniques with Mosz and use of Discardable Materials

Student(s) Arya Bairat **Grade 9** **Town** Milford

New Haven Engineering Science University Magnet School Roger Rushworth

2503 L8 2 Sodium Polyacrylate's affect on plant growth

Student(s) Akash Cheela **Grade 8** **Town** Milford

New Haven Engineering Science University Magnet School Roger Rushworth

2510 L8 2 How do Different Types of Street Lights Impact Our Environment and What is the Safest Way to Illuminate Our Streets?

Student(s) Eva Heaphy **Grade 8** **Town** New Haven

New Haven Engineering Science University Magnet School Roger Rushworth

3533 LST 1 A Novel Approach Using Biochar in Sand Reactors to Accelerate Biodegradation of Naphthenic Acids in the Process of Bitumen Extraction via Oil Sands

Student(s) Sumanth Kondapalli **Grade 10** **Town** Milford
Tirth Patel **Grade 11** **Town** New Haven

New Haven Engineering Science University Magnet School Heather Toothaker

6005 PS 1 A Novel Rapid Diagnostic Test for Zika Virus NS1 Protein using Nanoribbon Microfluidics

Student(s) Lauren Low **Grade 12** **Town** Hamden

New Haven Engineering Science University Magnet School Roger Rushworth

3114 LS 3 A Novel Study on the Membrane Interactions of Bovine Alpha-Lactalalbumin and Oleic Acid Complex on Tumor Cells to Induce Lysosomal Cell Apoptosis

Student(s) Prastik Mohanraj **Grade 10** **Town** Ansonia

New Haven Engineering Science University Magnet School Roger Rushworth

2528 L8 1 The affect of Roundup on GMO plants versus wild grown plants

Student(s) Rachna Vipparla **Grade 8** **Town** Milford

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[SchTown] [School] [Teacher]
[Proj#] [FCat] [Honors] [Project Title] **1st Honors are Finalists**

New Haven St. Aedan-St. Brendan School Michael Celentano

2019	L7	3	Rethink your drink
Student(s) Aaron Brogdon-Hill			Grade 7 Town New Haven

New Haven Wilbur Cross High School Charlene Woodland

3013	LS	1	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
Student(s) Sophie Edelstein			Grade 10 Town New Haven

New Haven Wilbur Cross High School Prof. Joshua Gendron

3151	LS	1	A study of circadian genetics and abiotic stress towards sustainable agriculture
Student(s) Maya Geradi			Grade 11 Town New Haven

New Haven Worthington Hooker Middle School Douglas Jones

1009	LT	1	Seaweed & Tsunamis
Student(s) Amelia Cox			Grade 7 Town New Haven
Student(s) Sage Urban			Grade 7 Town New Haven

New Haven Worthington Hooker Middle School Mr. Jones

2034	L7	2	Accelerating Plant Growth
Student(s) James Fields			Grade 7 Town New Haven

New Haven Worthington Hooker Middle School Mr. Jones

2037	L7	1	Earth, Water, Flora: Reducing Soil Erosion
Student(s) Alena Gutierrez			Grade 7 Town New Haven

New Haven Worthington Hooker Middle School Douglas Jones

5556	P8	3	A Change In the Winds
Student(s) Taivan Jargalan			Grade 8 Town New Haven

New Haven Worthington Hooker Middle School Douglas Jones

5549	P8	2	Great Balls of Fire Astrophotography Experiments
Student(s) Alexandra Northrup			Grade 8 Town New Haven

New Haven Worthington Hooker Middle School Douglas Jones

5533	P8	3	The Best Conductor
Student(s) Lily Walton			Grade 8 Town New Haven

New London Science and Technology Magnet HS David Brown

3123	LS	2	Bacterial Analysis of Kefir Products
Student(s) Yasmin Aguilar			Grade 11 Town New London

New London Science and Technology Magnet HS Charles Mulligan

3537	LST	3	The Effects of Different Fertilizer Levels on the Development and Chlorophyll Density in Solanum Lycopersicum var. Cerasiforme (Cherry Tomato).
Student(s) Leon Bolle			Grade 12 Town Groton
Student(s) Aries Santiago			Grade 11 Town New London

[SchTown] [School] [Teacher]
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New London Science and Technology Magnet HS Charles Mulligan

6519 PST 2 The Optimization of a Polycrystalline and Monocrystalline Solar Cell through Effective Cooling in the Form of a Heatsink Transfer System

Student(s) John Burnett **Grade** 11 **Town** Ledyard
 Austin Huang **Grade** 11 **Town** Uncasville

New London Science and Technology Magnet HS Charles Mulligan

3049 LS 3 The Effect of Time on Bacteria Growth on Books

Student(s) Aidan Desjardins **Grade** 10 **Town** Stonington

New London Science and Technology Magnet HS Charles Mulligan

6007 PS 3 Harnessing Magnetic Motion to Generate Energy

Student(s) Sean Flynn **Grade** 11 **Town** Waterford

New London Science and Technology Magnet HS David Brown

3133 LS 3 The Effect of Sun vs. Shade on the Decomposition Rate of Meat Through Carbon Dioxide Levels

Student(s) Sydney Ford **Grade** 11 **Town** Taftville

New London Science and Technology Magnet HS Mr. Mulligan

3103 LS 2 Implicating the Tolerance of Glyphosate on Artemisia Vulgaris

Student(s) Tori Johnston **Grade** 11 **Town** Waterford

New London Science and Technology Magnet HS Charles Mulligan

6016 PS 2 Ideal Printing Conditions for Fused Deposition Modeling with ABS Filament

Student(s) Jacqueline Kral **Grade** 12 **Town** Lisbon

New London Science and Technology Magnet HS Charles Mulligan

3087 LS 3 The Effect of a Known Allelopathic Chemicals (Juglone) on Coastal Marine Chlorophytes

Student(s) Renandy Ledoux **Grade** 10 **Town** New London

New London Science and Technology Magnet HS Mr. Brown

3505 LST 3 The survivability of the salt marsh Melamaus bidentatus snails

Student(s) Giselle Malloy **Grade** 11 **Town** New London
 Trent Matteau **Grade** 11 **Town** Ledyard

New London Science and Technology Magnet HS Mr. Mulligan

3541 LST 3 The Effect Half and Full Day Illumination Periods Have On Aquaponical and Conventional Methods

Student(s) Xaryia Melendez **Grade** 10 **Town** Colchester
 Bria Fielding **Grade** 10 **Town** New London

New London Science and Technology Magnet HS Mr. Mulligan

3054 LS 3 Effects of bromelain on raw ground beef.

Student(s) Jack Nye **Grade** 10 **Town** Lisbon

New London Science and Technology Magnet HS Charles Mulligan

3081 LS 2 Effectiveness of American Beach Grass Restoration

Student(s) Tessa Rock **Grade** 11 **Town** New London

New London Science and Technology Magnet HS Charles Mulligan

3046 LS 3 Effective Nutrient Source on Growth of Mint Lettuce

Student(s) K.D. Spencer Roman **Grade** 10 **Town** New London

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New London Science and Technology Magnet HS charles mulligan

3516 LST 2 The effects of salinity on marsh grass

Student(s) Efrain Santiago III

Grade 12 **Town** New London

Aimee Riddick

Grade 12 **Town** New London

New London Science and Technology Magnet HS Charles Mulligan

3128 LS 3 The Effect of Culturing Conditions on Lipid Production in Marine Microalgae

Student(s) Chloe Sherman-Watson

Grade 12 **Town** New London

New London Science and Technology Magnet HS Mr. Mulligan

3034 LS 3 What is the Effect of Different Concentrations of Salinity on the Growth of Grass?

Student(s) Morgan Slusarz

Grade 10 **Town** Connecticut

New London Science and Technology Magnet HS Charles Mulligan

6508 PST 1 Role of Ambient Environmental Chemical Composition in the Creation of Precursors to Life

Student(s) Thomas Statchen

Grade 10 **Town** Stonington

Zack Skrabacz

Grade 10 **Town** New London

New London St. Joseph School Amanda Lakowsky

5522 P8 3 Tidal Times

Student(s) Martin Arvidson

Grade 8 **Town** New London

New London St. Joseph School Tamara Hower

5020 P7 3 What's Your Boiling Point?

Student(s) Isabella Pero

Grade 7 **Town** New London

New London St. Joseph School Tamara Howes

5033 P7 3 The IRON-ic Truth About Cereal

Student(s) Liam Peters

Grade 7 **Town** East Lyme

New London St. Joseph School Ms. Lakowsky

5553 P8 3 Fruits vs Vegetables

Student(s) Samantha Salas

Grade 8 **Town** New London

New Milford New Milford High School Brad Jones

6512 PST 2 The U-Desk

Student(s) Matthew Adamou

Grade 12 **Town** New Milford

Thomas Schneider

Grade 12 **Town** New Milford

New Milford New Milford High School Brad Jones

6507 PST 3 Tail-Pipe Turbine

Student(s) Cesar Gavilano

Grade 12 **Town** New Milford

Kurt Jonke

Grade 12 **Town** New Milford

Newtown St. Rose of Lima School John Dalton

2028 L7 2 THE INVESTIGATION OF ACIDITY ON ZEBRA MUSSEL SHELLS
DRIESSENA POLYMORPHA

Student(s) Katerina Crowe

Grade 7 **Town** Southbury

Newtown St. Rose of Lima School John Dalton

2001 L7 1 The Effect of Petroleum Products on the Growth of Ramshorn Snails (Planorbis Rebrum)

Student(s) Gregory Gargano

Grade 7 **Town** Sandy Hook

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Preliminary Judging Results

[SchTown] [School] [Teacher]
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Newtown St. Rose of Lima School Mr Dalton
5017 P7 1 Bisphenol A content in BPA free water bottles, canned food items, children's plastic connectable beads and plastic pen caps
Student(s) Irena Komninakas **Grade 7** **Town** Shelton

Norwalk Roton Middle School John Skopp
2524 L8 1 What effect does surface temperature have on fingerprints?
Student(s) Sarah Signore **Grade 8** **Town** Norwalk

Norwalk Roton Middle School Stephanie Tom
4016 PT 3 How Does Temperature Affect the Elasticity of Rubber Bands?
Student(s) Juan Urresta **Grade 7** **Town** Norwalk
Max Ginsberg **Grade 7** **Town** Norwalk

Norwich Norwich Technical High School Lisa Elliott
3144 LS 3 Gender Identity Disorder
Student(s) Arkady Bibeau **Grade 12** **Town** Lebanon

Norwich Norwich Technical High School Lisa Elliott
3501 LST 2 Depressions Not A Choice, End The Stigma
Student(s) Brittany Cassidy **Grade 12** **Town** Norwich
Faith Stimson **Grade 12** **Town** Moosup

Norwich Norwich Technical High School Aleatha Palloni
3514 LST 3 The Effect of Livestock Supplements on Soil Microbes
Student(s) Ashley Czech **Grade 10** **Town** colchester
Gabrielle Martin **Grade 10** **Town** North Stonington

Norwich Norwich Technical High School Dr. Jesse Morin
3508 LST 2 Investigation of the Tenascin-X Protein and its Role in Ehlers-Danlos Syndrome
Student(s) Brianna Dziekan **Grade 11** **Town** Baltic
Athena Missios **Grade 11** **Town** Uncasville

Norwich Norwich Technical High School Lisa Elliott
3535 LST 2 Stomping the Stigma of Schizophrenia
Student(s) Kimaela Estelan **Grade 12** **Town** Norwich
Anjoli Kamuda **Grade 12** **Town** oakdale

Norwich Norwich Technical High School Aleatha Pelloni
3511 LST 2 The Effect of Enzyme Treatment on Soil Bacterial Growth
Student(s) Samantha Grott **Grade 10** **Town** Bozrah
Hailey Bill **Grade 10** **Town** Baltic
Emerald Haller **Grade 10** **Town** Preston

Norwich Norwich Technical High School Lisa Elliott
3503 LST 2 Panic Disorder
Student(s) Miranda Marriott **Grade 12** **Town** Griswold
Neely Henderson **Grade 12** **Town** Oakdale

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Preliminary Judging Results

[SchTown] [School] [Teacher]
 [Proj#] [FCat] [Honors] [Project Title] **1st Honors are Finalists**

Norwich Norwich Technical High school Lisa Elliott
 3538 LST 2 PTSD Stigma in Veterans
Student(s) Zachariah Meuse **Grade 12** **Town** Ledyard
 Owen Reynolds **Grade 12** **Town** Uncasville

Norwich Norwich Technical High School Jesse Morin
 3532 LST 2 The construction of an LCHAD Deficiency Model System and tagging of the HADHA enzyme using C. elegans
Student(s) Courtney Michaud **Grade 11** **Town** Norwich
 Kyle Tempesta **Grade 11** **Town** Uncasville

Norwich Norwich Technical High School Aleatha Pelloni
 3523 LST 2 The Effect of Different Solid Medias on the Amount of Antibiotic-Producing Bacteria Isolated from Soil Samples
Student(s) Nathanael Padgett **Grade 10** **Town** Lebanon
 Edward Russell **Grade 10** **Town** Colchester

Norwich Norwich Technical High School Dr. Jesse MORin
 3031 LS 2 The Effect of Bezafibrate Treatment on a Drosophila melanogaster Model of LCHAD Deficiency
Student(s) Christopher Papotto **Grade 11** **Town** Colchester

Norwich Norwich Technical High School Lisa Elliott
 3526 LST 2 Changing Attitudes Towards Panic Disorders
Student(s) Ashley Roch **Grade 12** **Town** Gales Ferry
 Gameron Mendez-Neff **Grade 12** **Town** Quaker Hill

Norwich Norwich Technical High School Dr. Morin
 3139 LS 3 Does the bacteria in the Drosophila melanogaster gut affect the severity of Type 2 Diabetes symptoms?
Student(s) Gianpierre Roche **Grade 11** **Town** Willimantic

Norwich Norwich Technical High School Jesse Morin
 3517 LST 3 Testing Drosophila melanogaster Flies as a Model to Study Alcohol Addiction
Student(s) Kassidy Stackpole **Grade 11** **Town** Uncasville
 Travis Nordgren **Grade 11** **Town** Griswold

Norwich Norwich Technical High School Dr. Jesse Morin
 3096 LS 2 The Effect of Mutations on C. elegans Resistance to Intoxication
Student(s) Ryan Stollman **Grade 11** **Town** Colchester

Norwich Norwich Technical High School Mrs. Pelloni
 3521 LST 2 The Effects of Fertilizers on Soil Bacteria
Student(s) Aaron Toof **Grade 10** **Town** Voluntown
 John Coleman **Grade 10** **Town** Norwich

Norwich Norwich Technical High School Lisa Elliott
 3506 LST 2 Exploration of Intermittent Explosive Disorder and Stigmas
Student(s) Alexis Verrette **Grade 12** **Town** Danielson
 Krystal Reyes **Grade 12** **Town** Norwich

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Norwich Norwich Technical High School Aleatha Pelloni

3529	LST	2	The Effect of Soil Moisture Content on the Isolation of Motile Bacteria
Student(s) Kelsey Williams			
Grade 10 Town Gales Ferry			
Douglas Rediger			
Grade 10 Town Gales Ferry			
Joshua McConnell			
Grade 10 Town Baltic			

Orange Amity Reg Middle School - Orange Campus Mr. Dahn/Foley

2527	L8	3	Effects of Commonly Used Fertilizers on Decomposition
Student(s) Abigail Bonat			
Grade 8 Town Orange			

Orange Amity Reg Middle School - Orange Campus Mr.Foley/Dahn

2523	L8	3	Cognitive Tests in Games
Student(s) Yujin Kim			
Grade 8 Town Orange			

Orange Amity Reg Middle School - Orange Campus Mr. Dahn/Foley

5510	P8	2	Inexpensive & Lightweight Alternatives for Expensive Bulky Jackets
Student(s) Adarsh Kongani			
Grade 8 Town Orange			

Orange Amity Reg Middle School - Orange Campus Mr. Dahn/Foley

2535	L8	2	The Effects of Music on Memory
Student(s) Claudia Lihar			
Grade 8 Town Orange			

Orange Amity Reg Middle School - Orange Campus Mr. Dahn/Foley

5521	P8	2	Silicone-Filled Drumsticks can Reduce Vibration Impact in a Drummer's Hand
Student(s) Sebastian Todeasa			
Grade 8 Town Orange			

Oxford Oxford High School Adrian Poffenberger

6090	PS	2	Correlation of Elbow Kinetics and Ball Velocity to UCL Strain/ Injury in Baseball Pitchers
Student(s) Michael Kashuba			
Grade 11 Town Oxford			

Pawcatuck St. Michael School Mrs. Grossomanides

5505	P8	3	The Fastest Manicure
Student(s) Hazel Allik			
Grade 8 Town Pawcatuck			

Pawcatuck St. Michael School Mrs. Anna-Helene Grossomanides

2018	L7	1	Hydroponics - A World Without Dirt
Student(s) Anne Drago			
Grade 7 Town Pawcatuck			

Pawcatuck St. Michael School Mrs. Anna-Helene Grossomanides

2539	L8	1	Phototropism: In Indoor Germinated Seedlings
Student(s) Mary Malloy			
Grade 8 Town Mystic			

Pawcatuck St. Michael School Mrs. Grossomanides

2023	L7	1	Is That Granite Radioactive?
Student(s) Samuel Montalto			
Grade 7 Town Westerly			

Plantville J.F. Kennedy Middle School Mrs.Pepin

5575	P8	3	Got Sugar?
Student(s) Margaret Coyle			
Grade 8 Town Southington			

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Plantsville J.F. Kennedy Middle School Mrs. Pepin
 4012 PT 3 "Got Plastic?"
Student(s) Lillian Eaccarino **Grade 7** **Town** Southington
 Abigail Mullins **Grade 7** **Town** Plantsville

Plantsville J.F. Kennedy Middle School Mrs. Pepin
 5037 P7 3 Going The Distance
Student(s) Vincent Fioriello **Grade 7** **Town** Plantsville

Plantsville J.F. Kennedy Middle School Mrs. Pepin
 5040 P7 1 What quantity of dimples on a golf ball best contributes to flight distance.
Student(s) Ethan Lebo **Grade 7** **Town** Southington

Plantsville J.F. Kennedy Middle School Mrs. Pepin
 1017 LT 2 Oil Effect On Aquatic Plants
Student(s) Caleigh McDougall **Grade 8** **Town** Southington
 Madison Johnston **Grade 8** **Town** Southington

Plantsville J.F. Kennedy Middle School Mrs. Pepin
 4018 PT 3 Strength of Bridges
Student(s) Kajetan Naworol **Grade 8** **Town** Milldale
 Pio Castellano **Grade 8** **Town** Plantsville

Plantsville J.F. Kennedy Middle School Mrs. Pepin
 1015 LT 3 Can You Cope With Your Dish Soap?
Student(s) Adriana Oddo **Grade 7** **Town** Plantsville
 Alexis Mullins **Grade 7** **Town** Plantsville

Plantsville J.F. Kennedy Middle School Mrs. Pepin
 5562 P8 2 Depth vs. Velocity
Student(s) Dylan Sandow **Grade 8** **Town** Plantsville

Pomfret Pomfret School Richard Kyung
 6037 PS 2 Study on the Roles of Reactive Oxygen Species(ROS) and Nano Scaled Biochemical Molecules
 Treating Tumor Cells
Student(s) YongWoo Lim **Grade 10** **Town** Pomfret

Redding CT STEM Fair Deborah Day
 3061 LS 1 The Influence of Wildebeest Carcass Inputs on the Diet of Fish in the Mara River
Student(s) Katherine Handler **Grade 12** **Town** Woodbridge

Redding CT STEM Fair Deborah Day
 3138 LS 2 The Relationship Between Intelligence Quotient, Phonological Awareness, and Reading Cognition: A Behavioral and Neuroimaging Analysis
Student(s) James He **Grade 12** **Town** Woodbridge

Redding CT STEM Fair Andrew Bramante
 6013 PS 2 Optimization of Vertically Aligned Boron Nitride Nanotube Membranes via Magnetic Arrangement in a Lyotropic Precursor for Water Transport Applications
Student(s) Connor Li **Grade 12** **Town** Cos Cob

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Redding CT STEM Fair David Lewis
 6057 PS 2 AprilTrack: A Particle-Filter based AprilTag Tracker
Student(s) Daniel Pfrommer **Grade 11** **Town Darien**

Redding Joel Barlow High School Dr. Katherine Nuzzo
 3097 LS 3 The Effect of Rising Water Temperature and Decreasing pH on Vibrio Cholerae Cases
Student(s) Samantha Ballas **Grade 11** **Town Easton**

Redding Joel Barlow High School Katherine Nuzzo
 3084 LS 2 The Effects of Global Climate Change on the Production of Oxygen Gas and Chlorophyll Fluorescence in the Chlorophyll f Pigment and with Chlorogloeopsis fritschii.
Student(s) Adam Boczar **Grade 11** **Town Easton**

Redding Joel Barlow High School Dr. Nuzzo
 3021 LS 2 The Effect of Different Species of Coprophagous Arthropods on the Reduction of Methane Production from Feces
Student(s) Daniel Brey **Grade 11** **Town Redding**

Redding Joel Barlow High School Dr. Nuzzo
 3004 LS 3 The Ameliorating Effects of Biochar and Fertilizers on the Amount of Organic Matter and Organic Carbon in Native Connecticut Soil
Student(s) Luca Cerbin **Grade 11** **Town Redding**

Redding Joel Barlow High School Dr. Nuzzo
 3518 LST 1 A Statistical Analysis of the Inflation of Atmospheric CO2 Levels and the Correlation Between Sea Ice Concentration and Aptenodytes Forsteri Breeding Patterns
Student(s) Ella Gaspar **Grade 11** **Town Redding**
Taylor Macchia **Grade 11** **Town Wilton**

Redding Joel Barlow High School Dr. Katherine Nuzzo
 3041 LS 3 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
Student(s) Sumudu Gunawardana **Grade 11** **Town Easton**

Redding Joel Barlow High School Dr. Katherine Nuzzo
 6079 PS 1 Experimentally determining the total lasting albedo effect of aerosol-seeded clouds based on aerosol particle type
Student(s) Jonathan Lam **Grade 11** **Town Easton**

Redding Joel Barlow High School Dr. Katherine Nuzzo
 3111 LS 2 Effects of Climate Change and pH Change on Daphnia Population Size and in turn Complete Freshwater Aquatic Ecosystems
Student(s) Jenna Ledbetter **Grade 12** **Town Redding**

Redding Joel Barlow High School Katherine Nuzzo
 3102 LS 2 Influence of Climate on the Decline of Fraxinus americana
Student(s) Sean Mullin **Grade 10** **Town Redding**

Redding Joel Barlow High School Dr. Katherine Nuzzo
 3530 LST 1 Analysis of the Effects of Selenastrum capricornutum on the pH of Freshwater Marine Environments
Student(s) Alex Palvinski **Grade 11** **Town Redding**
Michael Klein Wassink **Grade 11** **Town Redding**

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Redding Joel Barlow High School Dr. Katherine Nuzzo

3130 LS 3 The Role of Acidity in Phosphorus Fixation of Phaseolus Vulgaris through Induced Systemic Resistance by Inoculation of Azospirillum Brasilense

Student(s) Melani Zuckerman **Grade** 11 **Town** Redding

Ridgefield Ridgefield High School Ryan Gleason

3146 LS 2 Analyzing Rhythmic Processing Abilities in Children Ages Five to Fifteen

Student(s) Nora Maerean **Grade** 11 **Town** Ridgefield

Sandy Hook Newtown High School Tim DeJulio

3008 LS 3 Leg Exoskeleton for Patient With Osteogenesis Imperfecta to Help Prevent Bone Fractures

Student(s) Chloe Kasak **Grade** 12 **Town** Sandy Hook

Sandy Hook Newtown High School Tim DeJulio

6029 PS 3 The Synthesis of Silica X-Aerogels through the Sub-Critical Process

Student(s) William LeMay **Grade** 12 **Town** Newtown

Sandy Hook Newtown High School Tim DeJulio

6032 PS 3 Using Octadecanol to Limit Freshwater Evaporation in Areas of Droughts

Student(s) Kelsey O'Connor **Grade** 12 **Town** Newtown

Shelton Shelton High School Mrs. McNamara

6042 PS 3 Cheap Heat

Student(s) Gregorio Corsale **Grade** 12 **Town** Derby

Shelton Shelton High School Dr. Rivera

6088 PS 2 The Effect of Center of Mass and Center of Pressure Locations of Model Rocket Performance

Student(s) Siddharth Jain **Grade** 9 **Town** Shelton

Shelton Shelton High School Tosca Rivera

6058 PS 3 The Efficient Application of Resonant Energy

Student(s) Michael Kichar **Grade** 10 **Town** Shelton

Shelton Shelton High School Christine McNamara

6064 PS 2 An Engineering Approach to Developing Sustainable Technology: Piezoelectric-Powered Shoe Inserts

Student(s) Lauren Pawlowski **Grade** 11 **Town** Shelton

Shelton Shelton High School Christine McNamara

6023 PS 3 Biodegradable Plastic Study to Prevent Oceanic Pollution

Student(s) Marissa Peck **Grade** 12 **Town** Shelton

Shelton Shelton High School Mr. Goddard

3033 LS 3 Shell Shock: The Effects of Ocean Acidification on Shelled Marine Organisms

Student(s) Hunter Wronski **Grade** 12 **Town** Shelton

Shelton Shelton High School Dr. Rivera

6046 PS 1 Cycling Assisted Brake

Student(s) Kyle Young **Grade** 9 **Town** Shelton

Shelton Shelton High School Lucia Dunham

6002 PS 3 Hot Glass

Student(s) Jacob Zuklie **Grade** 11 **Town** Shelton

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Shelton Shelton Intermediate School Tina Genova

5543 P8 3 How does weather vary across the city?

Student(s) Jules Cayer **Grade 8** **Town** Shelton

Shelton Shelton Intermediate School Denise Fix

5023 P7 1 Sneaker Feature

Student(s) Sofia Gasbarro **Grade 7** **Town** Shelton

Shelton Shelton Intermediate School Timothy Gilson

1008 LT 2 Teething you the truth

Student(s) Hailee Lazaro **Grade 8** **Town** Shelton

Cathleen Higgings **Grade 8** **Town** Shelton

Shelton St. Joseph School Mr. Hyland

1006 LT 3 The effect of different materials used as a filter on the purity of water

Student(s) Ana Bushati **Grade 8** **Town** Ansonia

Jon Cela **Grade 8** **Town** Shelton

Shelton St. Joseph School Kieran Hyland

5507 P8 2 Battle of the Bridges

Student(s) Alexandra Coleman Coleman **Grade 8** **Town** Shelton

Shelton St. Joseph School Kieran Hyland

5016 P7 2 Insulation Wars

Student(s) Mark MacDaniel **Grade 7** **Town** Derby

Shelton St. Joseph School Kieran Hyland

5013 P7 3 The Amazing Magnetic Glove

Student(s) Kenny Mcgovern **Grade 7** **Town** Shelton

Simsbury Westminster School Richard Kyung

6041 PS 2 Development of New and Efficient Metamaterials

Student(s) Dong Ju Lee **Grade 11** **Town** Simsbury

Simsbury Westminster School Mr.Griffith

6048 PS 2 Efficient Wind Turbine Blade Design Using Computational and Numerical Analysis

Student(s) Seung Ki Lee **Grade 11** **Town** Simsbury

Simsbury Westminster School Mr. Tony Griffith

6052 PS 3 Adaptive Boosting - A Study on Machine Learning

Student(s) Nicholas Wee **Grade 11** **Town** Simsbury

Southington J.A. DePaolo Middle School Ms. Shea

5026 P7 1 Snap Crackle Pop

Student(s) Morgan Birdsey **Grade 7** **Town** Southington

Southington J.A. DePaolo Middle School D Shea

2512 L8 2 Digesting Medication

Student(s) Allison Guzauckas **Grade 8** **Town** Southington

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Preliminary Judging Results

[SchTown] [School] [Teacher]
[Proj#] [FCat] [Honors] [Project Title] **1st Honors are Finalists**

Southington J.A. DePaolo Middle School Mrs. Shea
5520 P8 2 Does the Surface Really Matter?
Student(s) Faith Kosior **Grade 8** **Town** Southington

Southington J.A. DePaolo Middle School Ms. Shea
2032 L7 2 Eco-Friendly Preservation of Vegetables
Student(s) Bogna Prusak **Grade 7** **Town** Southington

Southington Southington Catholic School Pauline Pelczar
5024 P7 2 What Recyclable Material Makes the Best Insulator?
Student(s) John Byrne **Grade 7** **Town** Southington

Southington Southington Catholic School Pauline Pelczar
5504 P8 1 Trash to Gas!
Student(s) Victoria Gomez **Grade 8** **Town** Southington

Stamford Bi-Cultural Day School Christopher Graseck 421 Park
1016 LT 1 How do Brine Shrimp Hatch in different Ph?
Student(s) Ben Cohen **Grade 7** **Town** Westport
Joshua Marcus **Grade 7** **Town** Westport

Stamford Bi-Cultural Day School Christopher Graseck
1002 LT 1 Is "non-toxic" dish detergent safe for the environment?
Student(s) Brandon King **Grade 7** **Town** Stamford
Ori Divon **Grade 7** **Town** Stamford

Stamford Bi-Cultural Day School Christopher Graseck
2025 L7 2 An Analysis of Nitrogen and Phosphate Fertilizer on Algae Growth
Student(s) Anna Lichtenberg **Grade 7** **Town** Stamford

Stamford Bi-Cultural Day School Christopher Graseck
2011 L7 3 How Different Colored Lights Impact Plant Growth
Student(s) Aaron Liebskind **Grade 7** **Town** Stamford

Storrs EO Smith High School Cheryl Granger
3044 LS 2 Patterns in the Overall Performance of Baseball Players at Different Positions
Student(s) Alexander Chandy **Grade 10** **Town** Storrs

Stratford St. Mark School Mrs Olins
1001 LT 2 How Sweet Is It?
Student(s) Kaitlyn Feliciano **Grade 8** **Town** Stratford
Jenna Koonitsky **Grade 8** **Town** Stratford

Stratford St. Mark School Mr. Olins
2522 L8 3 Antacid Potency
Student(s) Kaitlyn Grassia **Grade 8** **Town** Stratford

Stratford St. Mark School Lynn Olins
5035 P7 3 Making Tie Dye Milk
Student(s) Michael LaMonica IV **Grade 7** **Town** Stratford

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 [Proj#] [FCat] [Honors] [Project Title] **1st Honors are Finalists**

Stratford St. Mark School Mrs. Lynn Olins
 4026 PT 2 Can U(V) See the Light
Student(s) Liam Millott **Grade 8 Town** Milford
 Matthew Morales **Grade 8 Town** Stratford

Stratford St. Mark School Ms. Lynn Olins
 2005 L7 1 "Watts" the efficiency of solar cells?
Student(s) Kaitlyn Szczepanski **Grade 7 Town** Stratford

Stratford St. Mark School Lynn Olins
 5029 P7 2 How Safe Is Your Water?
Student(s) Mya Zayas **Grade 7 Town** Bridgeport

Suffield Suffield High School Mitchell Charkiewicz
 6082 PS 3 The Reutilization of Plastic as a Home Insulation System
Student(s) Katherine Baker **Grade 12 Town** Suffield

Suffield Suffield High School Mitchell Charkiewicz
 3012 LS 3 Self Defogging Ski Goggles
Student(s) Ryan Cleaves **Grade 12 Town** Canton

Suffield Suffield High School Mitch Charkiewicz
 3058 LS 3 An Application that Teaches the Fundamentals of Programming in Java
Student(s) Madison D'Ostuni **Grade 12 Town** Suffield

Suffield Suffield High School Mitchell Charkiewicz
 6027 PS 3 A Novel Approach to Measuring Reaction Times in a Simulated Driving Environment
Student(s) Caitlin Kirschbaum **Grade 12 Town** Suffield

Suffield Suffield High School Mitchell Charkiewicz
 3115 LS 3 Can Video Games Boost Intelligence in Children?
Student(s) Leroy Lawson **Grade 10 Town** West Suffield

Suffield Suffield High School Mitchell Charkiewicz
 6501 PST 2 Levitating and propelling objects.
Student(s) Zachary Rossignol **Grade 9 Town** Suffield
 Dylan Reilly **Grade 9 Town** Suffield

Suffield Suffield High School Mitchell Charkiewicz
 6073 PS 3 A Small Spectrometer to Find Peanut Ingredients in Food.
Student(s) Zachariah Service **Grade 11 Town** Suffield

Suffield Suffield High School Mitchell Charkiewicz
 6060 PS 3 Perpetual Wind Energy
Student(s) Samatar Wehelie **Grade 11 Town** Suffield

Suffield Suffield High School Mitchell Charkiewicz
 3504 LST 3 An Evaluation of Varying Reaction Times from Mobile Phones and Its Practical Application
Student(s) Aidan Werenski **Grade 10 Town** Suffield
 John Dion **Grade 10 Town** Suffield
 Ziad Hassan **Grade 10 Town** Suffield

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[SchTown] [School] [Teacher]
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Suffield Suffield High School Mitchell Charkiewicz
3520 LST 2 An investigation of Nannochloropsis oculata / Yeast Biofuel Efficiency

Student(s) Jason Werenski **Grade** 12 **Town** Suffield
Yash Mehta **Grade** 12 **Town** Suffield
Tristan Evans **Grade** 12 **Town** Suffield

Suffield Suffield Middle School Charkiewicz
2511 L8 2 How age affects short term memory

Student(s) Akshita Jindal **Grade** 8 **Town** Suffield

Suffield Suffield Middle School Mitchell Charkiewicz
5010 P7 3 Do Video Game Players Have Faster Reaction Times Than Non-Players?

Student(s) Ayush Mehta **Grade** 7 **Town** Suffield

Trumbull Christian Heritage School Theresa Miller
5555 P8 1 The fabrication and testing of various fruit juice dye-sensitized solar cells with the addition of preservatives

Student(s) Rachel Brooks **Grade** 8 **Town** Trumbull

Trumbull Christian Heritage School Theresa Miller
5509 P8 2 The Effect of Heat on Static Electricity

Student(s) Ymonie Humphries **Grade** 8 **Town** West Haven

Trumbull Christian Heritage School Daniel Cote
6018 PS 2 The Design and Fabrication of a Zero Carbon Emissions Compressed Air Engine Eliminating Batteries and Other Associated Environmental Impacts

Student(s) Judah Immanuel **Grade** 11 **Town** Woodbridge

Trumbull Christian Heritage School Theresa Miller
5532 P8 3 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?

Student(s) Andrea Piraneque **Grade** 8 **Town** Trumbull

Trumbull Christian Heritage School Daniel Cote
6070 PS 2 Feasibility of Radio Frequency Technology To Potentially Create a Wearable Distance-Sensitive Device to Help Young Adults Avoid Forgetting Epi-Pen.

Student(s) Cristian Piraneque **Grade** 11 **Town** Trumbull

Trumbull Christian Heritage School Theresa Miller
2533 L8 1 The Effect of Martian Regolith on Vegetable Germination for Extra Terrestrial Colonization

Student(s) Amanda Shipman **Grade** 8 **Town** Trumbull

Trumbull Christian Heritage School Daniel Cote
6095 PS 2 The Fabrication and Testing of a Personal Air Quality Monitoring System

Student(s) Chiharu Taniguchi **Grade** 11 **Town** Seymour

Trumbull St. Joseph High School Kevin Green
6096 PS 2 Determining Orbital Properties of Eclipsing Binary Stars Through Visual Observations of Variable Brightness

Student(s) James Bove **Grade** 11 **Town** Trumbull

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Trumbull St. Joseph High School Daniel T. Walsh, PhD

3509 LST 1 Effect of Popular Acidic Drinks on Human Tooth Enamel and Use of Common Chemical Additives to Reduce Enamel Erosion

Student(s) Cheng Chang
Hao Zhang

Grade 11 **Town** Stratford
Grade 12 **Town** Bridgeport

Trumbull St. Joseph High School Dr. Walsh

6504 PST 1 Today's Invisible Threats: the Concentration of Radon According to Geological and Geographical Components

Student(s) Abigail Cloud
Anna Argulian

Grade 10 **Town** Bridgeport
Grade 10 **Town** Stratford

Trumbull Trumbull High School Steffanie Elkins

3038 LS 3 An Investigation on the Potency of Sunscreen in Protecting Against UV Rays

Student(s) Victoria Estacio

Grade 12 **Town** Trumbull

Trumbull Trumbull High School Steffanie Elkins

6006 PS 3 Decreasing Energy Loss in the Flow of Electricity

Student(s) Neal Keklik

Grade 12 **Town** Trumbull

Trumbull Trumbull High School Steffanie Elkins

3071 LS 3 Effects of Stimulants on Heart Rate

Student(s) Armand Perez

Grade 11 **Town** Trumbull

Trumbull Trumbull High School Steffanie Elkins

3118 LS 3 Limiting our Exposure to Radio Frequency Radiation

Student(s) Srishti Pithadia

Grade 10 **Town** Trumbull

Trumbull Trumbull High School Steffanie Elkins

3089 LS 2 The Effect of Added External Chemicals on Inhibiting Population Growth of Cyanobacteria Within a Fertilizer-Runoff Environment

Student(s) Arnav Srivastava

Grade 10 **Town** Trumbull

Waterford Waterford High School Michael O'Connor

3016 LS 2 The Use of Copepods as a Mosquito Control System

Student(s) Sophie Wang

Grade 11 **Town** Waterford

Watertown The Taft School Richard Kyung

3106 LS 2 Reactivity and Stability Analysis of Metal Organic Frameworks(MOFs)

Student(s) Yejin Kim

Grade 11 **Town** Watertown

West Hartford Hebrew High School of New England Matthew Camarata

3099 LS 2 The Effects of Natural Organic Compounds on the Inhibition of Bacillus Subtilis Biofilm Growth

Student(s) Batya Koenigsberg

Grade 10 **Town** New Haven

West Hartford Hebrew High School of New England Mr. Camarata

3112 LS 2 Determining the Most Distracting of the Five Traditional Senses from Feelings of Pain

Student(s) Ariella Snyder

Grade 10 **Town** West Hartford

West Hartford King Philip Middle School Robert Felekey

5038 P7 1 Slip Hazard Alarm Robot--H2OhNobot

Student(s) Theodore Zhang

Grade 7 **Town** West Hartford

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West Hartford	Solomon Schechter Day School	Gilah Barker	5009	P7	2	Brownie Points: The effect of flours on brownies	Student(s) Harry Gold	Grade 7	Town West Simsbury
West Hartford	St. Brigid-St. Augustine School	Donald Fay	2505	L8	1	Ecological Refrigerator	Student(s) Melanie Grajales	Grade 8	Town West Hartford
West Hartford	St. Brigid-St. Augustine School	Donald Fay	2525	L8	2	How Much Sugar Are You Drinking?	Student(s) Alexandra Guerrero	Grade 8	Town West Hartford
West Hartford	St. Brigid-St. Augustine School	Mr. D Fay	5511	P8	3	A Battery That Makes "Cents"	Student(s) Angel Nooks	Grade 8	Town Hartford
West Hartford	St. Timothy Middle School	Danielle Locke	2526	L8	2	Sweet Smarts!	Student(s) Christopher Baldini	Grade 8	Town West Hartford
West Hartford	St. Timothy Middle School	Danielle Locke	2022	L7	1	Green Tea: A Simple Solution for a Bananas Problem?	Student(s) Grace Flynn	Grade 7	Town West Hartford
West Hartford	St. Timothy Middle School	Danielle Locke	2017	L7	2	Hitting All the Right Notes: Unlocking the Formula to Oscar-Winning Original Songs	Student(s) Mia Porcello	Grade 7	Town West Hartford
West Hartford	St. Timothy Middle School	Danielle Locke	5006	P7	2	What's Blocking Your Wi-Fi Signal?	Student(s) Alex Rosenthal	Grade 7	Town West Hartford
Weston	Weston Middle School	David Rosvally	5501	P8	3	Baking Vanilla Cupcakes with Different Ratios of Ingredients at Different Temperatures	Student(s) Sophia Balotescu	Grade 8	Town Weston
Weston	Weston Middle School	David Rosvally	5547	P8	2	Creating a Cosmetics Foundation with Natural Ingredients	Student(s) Julia Gregory	Grade 8	Town Weston
Weston	Weston Middle School	Allison Kovac	5544	P8	3	Challenges of Creating a 2-d Platformer Game Level	Student(s) Byron Hart	Grade 8	Town Weston
Weston	Weston Middle School	Darcy Ronan	2516	L8	3	Homemade RC Plane	Student(s) Matthew Krauss	Grade 8	Town Weston
Weston	Weston Middle School	Mr. Rosvally	5540	P8	2	How does the fill density of a 3D printed flying disc effect how far it flies?	Student(s) Brian Nordlinger	Grade 8	Town Weston

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Westport Staples High School Karen Thompson
3022 LS 2 The effects of environmental factors on overexpressed tau genes in Drosophila Melanogaster in regards to neurodegeneration

Student(s) Nicole Arellano **Grade** 11 **Town** Westport

Westport Staples High School Ms. Thompson
3143 LS 2 Investigation of Effectiveness of Bowel Preparations and Physician Rating for Maximum Visibility in Colonoscopy Procedures to Increase the Detection Rate of Colorectal Cancer

Student(s) Sarah Barnett **Grade** 12 **Town** Westport

Westport Staples High School Dr. Tinoco
3043 LS 2 Cilantro and plants with ester functional groups purify copper(II) from water

Student(s) Virginia Gerig **Grade** 12 **Town** Westport

Wilton Middlebrook Middle School Jessica Garcia
2504 L8 1 A Novel Method for Oil Spill Cleanup Using Biomass

Student(s) Anika Bhagavatula **Grade** 8 **Town** Wilton

Wilton Middlebrook Middle School Debbie Mallozzi
2536 L8 2 Love Me Tender

Student(s) Ashley Klancko **Grade** 8 **Town** Wilton

Wilton Middlebrook Middle School Carol Festa
5546 P8 3 Multi-Purpose Home Automated Motion Sensor

Student(s) Rohan Vaddiraju **Grade** 8 **Town** Wilton

Wilton Middlebrook Middle School Carol Festa
5557 P8 3 Air Engine : Can it be an alternative to a gasoline engine?

Student(s) Rahul Vallabhajosula **Grade** 8 **Town** Wilton

Windsor Academy of Aerospace and Engineering Michelle Bellinger
6098 PS 1 Effects of Concentration and Cooling Rate on Microstructural and Macroscopic Properties of Tin-Zinc Binary Alloys

Student(s) Jay Aindow **Grade** 12 **Town** Tolland

Windsor Academy of Aerospace and Engineering Dr. Michelle Bellinger
6019 PS 2 The effect of adding a second polymer to polyethylene terephthalate on the mechanical properties and morphology of the polymer blend systems

Student(s) Nikhil Bhat **Grade** 12 **Town** Rocky Hill

Windsor Academy of Aerospace and Engineering Michelle Bellinger
6513 PST 1 The Effect of Adding a Second Polymer to Bombyx mori silk fibroin on the Mechanical Properties and Morphology of The Polymer Blends

Student(s) Chandni Patel **Grade** 12 **Town** Southington
Janine Albert **Grade** 12 **Town** Windsor

Windsor Academy of Aerospace and Engineering Dr. Bellinger
6523 PST 1 Effect of Aerodynamic Leaf Design on Electrical Power Generation via a Network of Vertically Aligned Micro Wind Turbines.

Student(s) Chris Rinaldi **Grade** 10 **Town** Enfield
Vishakh Talanki **Grade** 10 **Town** south windsor
Jean Pasato **Grade** 10 **Town** Middletown

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Windsor Academy of Aerospace and Engineering Dr. Lili Aramli
3078 LS 3 An Investigation on the Effect of the Acidification of Soil on the Growth of Lolium perenne
Student(s) Spencer Scutt **Grade** 11 **Town** Enfield

Windsor Academy of Aerospace and Engineering Dr. Aramli
3122 LS 3 The Effect of Acid Rain on the Regeneration of Nematostella Vectensis
Student(s) Kyla Thomas **Grade** 11 **Town** Hartford

Windsor Greater Hartford Academy of Math and Science Lili Aramli
3515 LST 3 Environmental Stresses on the Rate of Evolution of Escherichia coli to Antibiotics
Student(s) Preksha Gupta **Grade** 11 **Town** Rocky Hill
Artem Boyko **Grade** 11 **Town** Manchester
Zirui Hao **Grade** 11 **Town** Rocky Hill

Windsor Greater Hartford Academy of Math and Science Dr. Lili Aramli
3002 LS 2 The Effect of Collect Nutrient Powder on Mus Musculus Lewis Lung Carcinoma Cell Confluence, Viability and Growth Rate
Student(s) Marissa Guzzo **Grade** 11 **Town** Suffield

Windsor Greater Hartford Academy of Math and Science Dr. Lili Aramli
3124 LS 3 The Effect of Asparagus cochinchinensis Root on Mouse Lewis Lung Carcinoma Growth
Student(s) Brianna Mailloux **Grade** 11 **Town** Suffield

Windsor Greater Hartford Academy of Math and Science Dr. Lili Aramli
3073 LS 3 The Effects of Artemisinin and Ferrous Iron on Mouse Lewis Lung Carcinoma Growth
Student(s) Ashley Shafran **Grade** 11 **Town** Southington

Windsor Greater Hartford Academy of Math and Science Dr. Aramli
3522 LST 2 The effects climate change variables have on genetic inheritance of butterfly wing patterns
Student(s) Alexandra Smith **Grade** 11 **Town** Suffield
Sreenidhi Nair **Grade** 11 **Town** West Hartford

Windsor Greater Hartford Academy of Math and Science Dr. Lili Aramli
3131 LS 3 Viability of Cloud-Bacteria Transportation
Student(s) Jason Vailionis **Grade** 12 **Town** Rocky Hill

Windsor Greater Hartford Academy of Math and Science Dr. Lili Aramli
3507 LST 1 The Investigation of the Effectiveness of Triclocarban as an Antibacterial Agent
Student(s) Alexa Wilson **Grade** 11 **Town** Rocky Hill
Arshad Bhura **Grade** 11 **Town** Rocky Hill
Malavika Madan **Grade** 11 **Town** South Windsor

Windsor Madina Academy Saqib Chariwala
6516 PST 1 Converting Grass into Cellulosic Ethanol to Generate Energy as a Heating System
Student(s) Radeyah Ahmed **Grade** 10 **Town** Bloomfield
Jareen Choudhury **Grade** 11 **Town** Bloomfield

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Windsor Madina Academy Saqib Chariwala
 4013 PT 2 Light Intensity and Photosynthesis: How different colors of light and their intensities affect photosynthesis?
Student(s) Sakinah Caesar **Grade 7** **Town** Simsbury
 Sheza Chaudhry **Grade 7** **Town** Windsor Locks

Windsor Madina Academy Saqib Chariwala
 6514 PST 2 Charge Your Devices Using a Portable Thermoelectric Generator Harnessing Wasted Heat Energy
Student(s) Ayman ElSherbini **Grade 10** **Town** Windsor
 Alina Mohammed **Grade 10** **Town** Windsor

Windsor Madina Academy Saqib Chariwala
 3051 LS 3 Starch in leaves.
Student(s) Fairuza Mikailou **Grade 10** **Town** Manchester

Windsor Madina Academy Saqib Chariwala
 4020 PT 1 Investigating Novel Methods of Generating Electricity Using a Double Plated Magnetic Generator with Springs Compared to a Miniature Axial Rounded Tip Tidal Stream Generator
Student(s) AlYaman Zoghoh **Grade 8** **Town** Enfield
 Ahmad Mohammed **Grade 8** **Town** Windsor

Windsor St. Gabriel School Ms. Rosa
 5529 P8 2 Soiled Soil
Student(s) Jessica Akin **Grade 8** **Town** Windsor

Windsor St. Gabriel School Meg Rosa
 2529 L8 1 Conventional v. Organic Fruit
Student(s) Jeremy Blackwood **Grade 8** **Town** Windsor

Woodbridge Amity Regional High School Deborah Day
 3065 LS 2 Evaluation of Potential Outer Membrane Protein Candidates for the Serological Diagnostic of Leptospirosis
Student(s) Suvasini Balaji **Grade 12** **Town** Orange

Woodbridge Amity Regional High School Deborah Day
 3524 LST 3 The Effect of Predation and Availability of Resources on Habitat Selection of Oniscus asellus
Student(s) Joseph Benedetti **Grade 10** **Town** Bethany
 Austin Gilbride **Grade 10** **Town** Woodbridge

Woodbridge Amity Regional High School Deborah Day
 6049 PS 3 Improving the Outbrain Click Prediction Algorithm
Student(s) Jimmy Bi **Grade 12** **Town** Woodbridge

Woodbridge Amity Regional High School Deborah Day
 6093 PS 2 Designing a Protective Cap To Reduce Impact Force and Head Trauma
Student(s) Quinnlan Burke **Grade 11** **Town** Woodbridge

Woodbridge Amity Regional High School Ms. Deborah Day
 3027 LS 3 Determining Genetic Mutations in Gitelman Syndrome
Student(s) Alicia Chen **Grade 12** **Town** Woodbridge

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Woodbridge Amity Regional High School Deborah Day

3001	LS	3	Investigating Murine Humoral Responses to Tick-borne Pathogens to Develop a Confirmatory Diagnostic Tool
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Student(s) Emily Criscuolo **Grade** 12 **Town** Woodbridge

Woodbridge Amity Regional High School Deborah Day

6099	PS	3	Residential Oil Tank Risk Prediction
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Student(s) Howard Ding **Grade** 11 **Town** Woodbridge

Woodbridge Amity Regional High School Deborah Day

3006	LS	2	Dissecting the role of Desmosterol in regulating macrophage immune activation during atherogenesis
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Student(s) Agrani Dixit **Grade** 11 **Town** Woodbridge

Woodbridge Amity Regional High School Deborah Day

6520	PST	2	The Effect of Bio-inspired Textures on Friction
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Student(s) Rosie Du **Grade** 10 **Town** New Haven
 Courtney Greifenberger **Grade** 11 **Town** Orange

Woodbridge Amity Regional High School Deborah Day

3088	LS	3	Effect of point of view on lasting empathy
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Student(s) Weixin Du **Grade** 11 **Town** Bethany

Woodbridge Amity Regional High School Deborah Day

3055	LS	2	The Effect of Oxidative Stressors on Cultured Epithelial Lung Cells
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Student(s) Ulada Dubovik **Grade** 11 **Town** Orange

Woodbridge Amity Regional High School Ms. Day

3135	LS	2	Correlations Between Specific Gut Flora and Different Body Mass Type Changes
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Student(s) Jacob Feuerstein **Grade** 10 **Town** Woodbridge

Woodbridge Amity Regional High School Deborah Day

3085	LS	2	Taste Perception in Obesity: Understanding the Role of Physiological State, Macronutrient Intake, and Flavor Preference
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Student(s) Allison Fischman **Grade** 10 **Town** Woodbridge

Woodbridge Amity Regional High School Deborah Day

6089	PS	1	Study of Size Separation of Sub-Millimeter Sizes Granular Material Using Vibro-Fluidization
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Student(s) Jethin Gowda **Grade** 12 **Town** Orange

Woodbridge Amity Regional High School Day

3104	LS	2	Using Connectivity Data to Remap the Mouse Brain
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Student(s) Jacob Gross **Grade** 11 **Town** Woodbridge

Woodbridge Amity Regional High School Ms. Deborah Day

3077	LS	2	Evaluating the Potential of CRISPR gRNA Sequence to Target Patient Isolae Sequency
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Student(s) Ananya Kachru **Grade** 11 **Town** Woodbridge

Woodbridge Amity Regional High School Deborah Day

6077	PS	3	Synthesis and Improvement of Mechanical Robustness Within Photonic Crystals
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Student(s) Vince Li **Grade** 11 **Town** Orange

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Woodbridge Amity Regional High School Deborah Day

3120	LS	2	Determining Ideal Management Strategy for Controlling Varroa Mite Levels
Student(s) Thomas Livesay			Grade 10 Town Woodbridge

Woodbridge Amity Regional High School Deborah Day

6510	PST	2	Analysis and Proving of "Cycloid" Universe Using Friedmann Equations and Torsion Cosmology
Student(s) Kelsey McCormack			Grade 12 Town Orange
Himay Dharani			Grade 12 Town Orange

Woodbridge Amity Regional High School Deborah Day

6071	PS	3	Is It More Effective to Get Surgery or Use Physical Therapy After a Ruptured Heel Cord?
Student(s) Henry Molot			Grade 11 Town Woodbridge

Woodbridge Amity Regional High School Deborah Day

3014	LS	2	Examining variation in immunity genes of bananas of different geographic regions through genotyping
Student(s) Sebin Park			Grade 11 Town Woodbridge

Woodbridge Amity Regional High School Deborah Day

3091	LS	2	Utilization of Q-2 Pressure System in Preventing Pressure Ulcers for In and Out-Patient Therapies
Student(s) Rohan Patel			Grade 12 Town Orange

Woodbridge Amity Regional High School Ms. Deborah Day

3110	LS	3	Effects of Feces Deposition in Natural Refuges on Common Bed Bug
Student(s) Sarah Saxe			Grade 12 Town Woodbridge

Woodbridge Amity Regional High School Deborah Day

6527	PST	2	Impacts of Ocean Acidification on Phytoplankton
Student(s) Summer Schaaf			Grade 10 Town Woodbridge
Neha Sudhir			Grade 10 Town Woodbridge

Woodbridge Amity Regional High School Deborah Day

6043	PS	3	The Fabrication of a Graphene Supercapacitor
Student(s) Jacob Silliman			Grade 11 Town Woodbridge

Woodbridge Amity Regional High School Deborah Day

6084	PS	2	The Effect of Different Textures of Coconut-Based Activated Carbon on the Adsorption of Dyes
Student(s) Keri Tenerowicz			Grade 10 Town Bethany

Woodbridge Amity Regional High School Deborah Day

6080	PS	2	Comparing the efficiency of water-filtering materials and developing an affordable, effective, water filtration system for the developing world
Student(s) Julia Todeasa			Grade 10 Town Orange

Woodbridge Amity Regional High School Deborah Day

3020	LS	2	The Comparison of Metal Absorption of Microparticles from Various Face Washes
Student(s) Kevin Yanagisawa			Grade 11 Town Woodbridge

Woodbridge Amity Regional High School Deborah Day

6004	PS	2	Analysis of Mercury Content in Sediments of New Haven Harbor
Student(s) Kate Yuan			Grade 10 Town Woodbridge

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Woodbridge Amity Regional High School Deborah Day

3132	LS	3	Improving Cardiac Motion Correction in Cardiac SPECT
Student(s) Kevin Zhao			Grade 11 Town Woodbridge

Woodbridge Ezra Academy Rebecca Tishkoff

5523	P8	1	Tracking the movements of a human being.
Student(s) Ethan Lavi			Grade 8 Town Woodbridge

Woodbridge Ezra Academy Dr. Tishkoff

5028	P7	3	The Plentiful Popcorn Project
Student(s) Rachel Logue			Grade 7 Town Fairfield

Woodbridge Ezra Academy Rebecca Tishkoff

5528	P8	3	Is There a Tapiolite Vein in Connecticut?
Student(s) Gideon Reiter			Grade 8 Town Woodbridge

Woodbridge Ezra Academy Rebecca Tishkoff

5548	P8	2	What's your signal?
Student(s) Noah Sapire			Grade 8 Town Woodbridge