



Connecticut Science & Engineering Fair

Quinnipiac University

March 15 - 19, 2016

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
Ansonia	Ansonia High School	Mrs. Seibert	3120	LS	2	The Effect of Diet on Homeostasis in the Human Body	
Student(s) Matthew Madar							Grade 12 Town Ansonia
Avon	Avon High School	Andrea Galuska	6507	PST	2	Renewable Hydrogen-Based Automotive Engine (HICEV): Using a Novel Electrolysis Apparatus to Improve Cost-Efficiency	
Student(s) Humza Zaidi							Grade 10 Town Avon
Chris Swetzes							Grade 10 Town Avon
Avon	Talcott Mountain Academy	Dr. Jessica Lodwick	2062	L7	3	Running Heart Rate	
Student(s) Kathleen Casey							Grade 7 Town Avon
Avon	Talcott Mountain Academy	Dr. Jessica Lodwick	2548	L8	2	Using Artificial Neural Networks to Diagnose Prostate Cancer Malignancy	
Student(s) Zan Huang							Grade 8 Town West Hartford
Avon	Talcott Mountain Academy	Dr. Jessica Lodwick	2506	L8	2	Averaged Allure: How Composite Faces Compare to Singular Faces	
Student(s) Annika Mathias							Grade 8 Town Avon
Avon	Talcott Mountain Academy	Dr. Jessica Lodwick	2035	L7	2	Do Algorithms Dream of Electric Trees?	
Student(s) Aresh Pourkavoos							Grade 7 Town Avon
Avon	Talcott Mountain Academy	Dr. Jessica Lodwick	2030	L7	2	The Perfect Peanut: Effects of Cleaning Agents on the Peanut Allergen	
Student(s) Braeden Rose							Grade 7 Town East Hampton
Avon	Talcott Mountain Academy	Jessica Lodwick	2510	L8	2	Utilizing Microbes And Chlorella Vulgaris Algae To Construct An Eco-Friendly Microbial Fuel Cell	
Student(s) Yusuf Zaidi							Grade 8 Town Avon
Bethany	Amity Reg Middle School, Bethany Campus	Mr. Berean	5567	P8	1	The Hand-Writer Helper	
Student(s) Michael Baitch							Grade 8 Town Woodbridge
Bethany	Amity Reg Middle School, Bethany Campus	Mr. Berean	4009	PT	1	The TempBot	
Student(s) Ana Boccanfuso							Grade 8 Town Woodbridge
Saunder Saffran							Grade 8 Town Bethany
Bethany	Amity Reg Middle School, Bethany Campus	Mr. Berean	5508	P8	3	Cat Bot	
Student(s) Max Boynton							Grade 8 Town Bethany

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

Bethany Amity Reg Middle School, Bethany Campus Mr. Berean
4032 PT 2 Chef Bots
Student(s) **Andrew Gagliardi** Grade 8 Town Woodbridge
Jack Tajmajer Grade 8 Town Bethany

Bethany Amity Reg Middle School, Bethany Campus Mr. Berean
4005 PT 2 Musical Hands; Prosthetic Components to Assist Disabled Musicians
Student(s) **Olivia Gross** Grade 8 Town Woodbridge
Ruth Berganross Grade 8 Town Woodbridge

Bethany Amity Reg Middle School, Bethany Campus Mr. Berean
4029 PT 2 Litter Bot
Student(s) **Tracy Lu** Grade 8 Town Woodbridge
Nicole Cohen Grade 8 Town Woodbridge

Bethany Amity Reg Middle School, Bethany Campus Mr. Berean
4013 PT 2 The Emermill
Student(s) **Laurella Marin** Grade 8 Town Woodbridge
Rhea Dey Grade 8 Town Woodbridge

Bethany Amity Reg Middle School, Bethany Campus Mr. Berean
4016 PT 2 The Assister Bot
Student(s) **Kayla Morgan** Grade 8 Town Woodbridge
Georgia Dalakas Grade 8 Town Woodbridge

Bethany Amity Reg Middle School, Bethany Campus Mr. Berean
5541 P8 1 The Eco-Charge
Student(s) **Sophia Wang** Grade 8 Town Woodbridge

Bethany Amity Reg Middle School, Bethany Campus Mr. Berean
4001 PT 1 Emergency Oil Spill Robot
Student(s) **Victor You** Grade 8 Town Woodbridge
Benjamin Goldstein Grade 8 Town Woodbridge
Ryan Kelley Grade 8 Town Woodbridge

Bethel Bethel High School Ray Turek
3038 LS 3 Decoding Dangerous DNA
Student(s) **Monisha Das** Grade 12 Town Bethel

Bethel St. Mary School Mrs. Kate McDonald
5040 P7 2 Nuttin But a Calorie
Student(s) **Grace Garvey** Grade 7 Town Bethel

Bethel St. Mary School Mrs. Kate McDonald
5532 P8 2 Wind Turbine Efficiency
Student(s) **David Kallberg** Grade 8 Town Bethel

Bethel St. Mary School Mrs. Kate McDonald
4007 PT 3 MAGNETISM- maglev train
Student(s) **Gerard Kane** Grade 8 Town Danbury
Brendan Divincenzo Grade 8 Town REDDING

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Bethel St. Mary School Kate McDonald
5027 P7 3 BioFuels
Student(s) Zachary LaCava **Grade 7** **Town** Bethel

Bethel St. Mary School Mrs. Kate McDonald
5510 P8 3 Water Wizard: Incorporating the Simplicity of Water Testing Strips with the Complexity and Sophistication of a Smartphone Application While Utilizing Mathematics
Student(s) Kevin Legnard **Grade 8** **Town** Bethel

Bethel St. Mary School Mrs. Kate McDonald
2534 L8 3 Liquefaction in Action
Student(s) Elisa Lifrieri **Grade 8** **Town** Bethel

Bethel St. Mary School Kate McDonald
5013 P7 2 Strength of Bridges: Which bridge will deflect the least?
Student(s) Anna Meehan **Grade 7** **Town** Bethel

Bethel St. Mary School Ms. Kate MacDonald
2002 L7 2 Fruity Finds
Student(s) Ellenia Meehan **Grade 7** **Town** Bethel

Bethel St. Mary School Kate McDonald
2029 L7 2 Which Disinfectant Kills Bacteria The Best?
Student(s) Nicole Solano **Grade 7** **Town** Danbury

Bethel St. Mary School Mrs. Kate McDonald
1016 LT 1 Do You C The Vitamins?
Student(s) Madeline Suarez **Grade 8** **Town** Bethel
Abigail Gleissner **Grade 8** **Town** Bethel

Bozrah Fields Memorial School Mrs. E Brown
5506 P8 1 Spherification
Student(s) Sophia DiCocco **Grade 8** **Town** Bozrah

Bozrah Fields Memorial School Evelyn Brown
5518 P8 1 Producing Renewable Energy Using Piezoelectric Walking Surfaces
Student(s) Dravyn Okoney **Grade 8** **Town** Bozrah

Bozrah Fields Memorial School Evelyn Brown
5531 P8 1 Using Solar Engine Circuits to Power Electrical Devices
Student(s) Victoria Smith **Grade 8** **Town** Bozrah

Bozrah Fields Memorial School Evelyn Brown
5523 P8 1 Investigate the Use of Mesoporous Insulations to Increase Survival Duration In Extreme Cold
Student(s) Brendan Toth **Grade 8** **Town** Bozrah

Branford CT Experiential Learning Center (CELC) Melinda Alcosser
2054 L7 1 An Energy Bar That Sticks Best
Student(s) Galina Cooper **Grade 7** **Town** Milford

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Branford CT Experiential Learning Center (CELC) Melinda Alcosser
4039 PT 1 BullyCheck - Designing Anti-Bullying Software
Student(s) Sue Hemingway Grade 8 Town Branford
Sophie Burdick Grade 7 Town Deep River

Branford CT Experiential Learning Center (CELC) Melinda Alcosser
5037 P7 3 Productive Oil Spill Surface-Cleaning Method
Student(s) Christopher Meeks Grade 7 Town Guilford

Branford CT Experiential Learning Center (CELC) Melinda Alcosser
2046 L7 2 Bovine Methane Emissions Capturing Device
Student(s) Cade Morris Grade 7 Town Northford

Branford CT Experiential Learning Center (CELC) Melinda Alcosser
5011 P7 3 How Running Shoe Design Affects Runners
Student(s) Ronnie Scarpa Grade 7 Town Killingworth

Bridgeport Black Rock School Helen Coatsworth
2012 L7 2 Torso Length and Lung Capacity
Student(s) Brianna Reyes Grade 7 Town Bridgeport

Bridgeport Blackham School Patricia Wrenn
4014 PT 2 How Does Temperature Affect the Re-crystallization Process?
Student(s) Dianna Bustillo Grade 7 Town Bridgeport
Alexa Reyes Grade 7 Town Bridgeport

Bridgeport Blackham School Patricia Wrenn
4006 PT 3 Modeling Volcanic Eruptions with Mentos.
Student(s) Anthony Chen Grade 7 Town Bridgeport
Zarif Kurti Grade 7 Town Bridgeport

Bridgeport Bridgeport Military Academy Mrs. Andrade
6044 PS 2 Hydrogen, The Futures Fuel.
Student(s) Facundo Cremel Grade 10 Town Bridgeport

Bridgeport Bridgeport Military Academy Cori Andrade
6525 PST 3 Electromagnet
Student(s) Jacob Hyatt Grade 10 Town Trumbull
Luke Montanaro Grade 10 Town Trumbull

Bridgeport Bridgeport Military Academy Mr. Kadam
6515 PST 3 Does water temperature effect to sublimation time of dry ice?
Student(s) Yadiel Quinones Grade 9 Town Bridgeport
Kellyann Lopez Grade 9 Town Bridgeport

Bridgeport Bridgeport Regional Aquaculture Center Kirk Shadle
3036 LS 1 Modified Compost Leachate as a Narrow Spectrum Targeting Herbicide
Student(s) Sara Beck Grade 12 Town Milford

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Bridgeport Bridgeport Regional Aquaculture Center Kirk Shadle
6026 PS 1 Novel Application of an Electromagnetic Induction Field to Inhibit Surface Bio-Fouling in the Marine Environment
Student(s) Zachary Dillon **Grade** 12 **Town** Stratford

Bridgeport Bridgeport Regional Aquaculture Center Kirk Shadle
3114 LS 2 Analyzing the use of Moon Jellyfish, Aurelia aurita, Collagen as a Viable Alternative in Medical Applications
Student(s) Kylie Fawcett **Grade** 12 **Town** Fairfield

Bridgeport Bridgeport Regional Aquaculture Center Kirk Shadle
6029 PS 2 Development of a biochar based, sorption material to regulate nitrogen compounds in aquatic and terrestrial environments.
Student(s) Madeline Gill **Grade** 12 **Town** Fairfield

Bridgeport Bridgeport Regional Aquaculture Center Kirk Shadle
6039 PS 2 Triboelectric Series and its relation concerning power generation in Triboelectric Nano generators
Student(s) Randy Kaufman **Grade** 12 **Town** Stratford

Bridgeport Bridgeport Regional Aquaculture Center Kirk Shadle
6008 PS 2 Observing the Deposition Process of Synthesized of Graphene Oxide and Iron Oxide to Establish a Stable Magnetic Field
Student(s) Stephanie Kreitler **Grade** 12 **Town** Shelton

Bridgeport Bridgeport Regional Aquaculture Center Kirk Shadle
3032 LS 2 Bioencapsulating Brine Shrimp with Vitamin D3 to Find its Impact when Ingested by Lobsters
Student(s) Monika Metro **Grade** 12 **Town** Monroe

Bridgeport Bridgeport Regional Aquaculture Center Kirk Shadle
3086 LS 1 Analysis of Honey Derivatives as a Functional Tumor Growth Suppressant
Student(s) Katharine Morris **Grade** 12 **Town** Bridgeport

Bridgeport Bridgeport Regional Aquaculture Center Kirk Shadle
6034 PS 2 Development of a Zero Net Energy Hydrogen Fuel Cell System for the Purpose of Generating Potable Water
Student(s) Danielle Peterson **Grade** 12 **Town** Stratford

Bridgeport Bridgeport Regional Aquaculture Center Kirk Shadle
3052 LS 2 Using biochar and 8-methyl-N-vanillyl-trans-6- nonenamide as a nontoxic agricultural pest inhibitor for glycine max
Student(s) Skylynn Reyes **Grade** 12 **Town** Bridgeport

Bridgeport Central Magnet High School Mr. Pascarell
6518 PST 3 Cardice
Student(s) Maseeha Bangi **Grade** 10 **Town** Bridgeport
Quynh Tran **Grade** 10 **Town** Bridgeport

Bridgeport Classical Studies Academy Ms. Bookbinder
2518 L8 3 Gum v.s Mints
Student(s) CayeJree Rhone **Grade** 8 **Town** Bridgeport

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Bridgeport Discovery Interdistrict Magnet School Mrs. Walsh

5014	P7	3	Ice, Ice, Baby
Student(s)		Dominic Paul Gomes	Grade 7 Town Stratford

Bridgeport Fairchild Wheeler Interdistrict Magnet Ms. Pearson

6066	PS	3	Cell Phone Radiation
Student(s)		Gianna Barada	Grade 11 Town Stratford

Bridgeport Fairchild Wheeler Interdistrict Magnet Marilyn Pearson

6012	PS	3	Case of The Blues
Student(s)		Andrew Barbosa	Grade 11 Town Bridgeport

Bridgeport Fairchild Wheeler Interdistrict Magnet Paul Bergquist

6021	PS	2	How Does a Curved Oar Handle Affect a Rowing Stroke?
Student(s)		Erik Koether	Grade 10 Town Southport

Bridgeport Fairchild Wheeler Interdistrict Magnet Mr. Grace

3054	LS	3	Handedness and the Stroop effect
Student(s)		Emma O'Clair	Grade 9 Town Trumbull

Bridgeport Fairchild Wheeler Interdistrict Magnet Mr. Bouffard

3007	LS	2	Cancer Cell Invasion into the Stroma
Student(s)		Shubhangy Raghavan	Grade 9 Town Bridgeport

Bridgeport Fairchild Wheeler Interdistrict Magnet Mrs. Jamie Warner

3047	LS	2	An Investigation into the Affect of Computer Puzzle Games on Student Test Scores
Student(s)		Steven Siveyer	Grade 9 Town Monroe

Bridgeport Fairchild Wheeler Interdistrict Magnet Marilyn Pearson

6061	PS	2	Determining whether or not the Quicksort is really the quickest
Student(s)		Steven vanZyl	Grade 11 Town Trumbull

Bridgeport Geraldine W. Johnson School Kaitlin Dinet

2014	L7	2	Do graphic organizers affect students' writing?
Student(s)		Bush Pham	Grade 7 Town Bridgeport

Bridgeport High Horizons Magnet School Mrs. Scott-Thiam

2037	L7	1	Fogponics
Student(s)		Rebecca Abirached	Grade 7 Town Bridgeport

Bridgeport Jettie S. Tisdale School Mr. Bell

1002	LT	2	feeding plants different waters
Student(s)		Amanda Szabados	Grade 7 Town Bridgeport
		Maria Garcia	Grade 7 Town Bridgeport

Bridgeport Multicultural Magnet School Corina Ciuflea

5559	P8	2	Keeping It Cool!
Student(s)		Norelisa Nascimento	Grade 8 Town Bridgeport

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Bridgeport Park City Prep Charter School Jonathan Jaekle

4008 PT 2 So Much Blood

Student(s) Julissa Acevedo **Grade 8** **Town** Bridgeport

Dayhana Perez **Grade 8** **Town** Bridgeport

Bridgeport Park City Prep Charter School Mr. Jaekle

5036 P7 1 Water, Water Everywhere, But Not A Drop To Drink

Student(s) Antonios Boudreau **Grade 7** **Town** Ansonia

Bridgeport Park City Prep Charter School Vicky Boudreau

2047 L7 3 Which Banana Will Rot The Slowest?

Student(s) Monica Cardenas **Grade 7** **Town** BPT

Bridgeport Park City Prep Charter School Vasiliki Boudreau

5520 P8 3 Fast Food... Or is it Slow??

Student(s) Tasia Courts **Grade 8** **Town** Bridgeport

Bridgeport Park City Prep Charter School Vasiliki Boudreau

4031 PT 2 Talking vs Texting

Student(s) Gloryann De Jesus **Grade 7** **Town** Bridgeport

Brianna Ozoria **Grade 7** **Town** Bridgeport

Angoline Rivera **Grade 7** **Town** Bridgeport

Bridgeport Park City Prep Charter School Jonathan Jaekle

1011 LT 1 Energy Bars: True or False

Student(s) Imani Lopez **Grade 8** **Town** Bridgeport

Pierre Tilus **Grade 8** **Town** Bridgeport

Bridgeport Park City Prep Charter School Jonathan Jaekle

5557 P8 3 Saltifying Shock

Student(s) Willow Marks **Grade 8** **Town** Bridgeport

Bridgeport Park City Prep Charter School Jonathan Jaekle

4002 PT 3 Evaporation Race

Student(s) Cristian Ortiz **Grade 8** **Town** Bridgeport

Dennis Hampton **Grade 8** **Town** Bridgeport

Bridgeport Park City Prep Charter School Jonathan Jaekle

2517 L8 3 Quiz Me!

Student(s) Shantel Pena **Grade 8** **Town** Bridgeport

Bridgeport Park City Prep Charter School Ms. Boudreau

1006 LT 3 Enjoy It Now... Or Enjoy It Later? Understanding Delayed Gratification

Student(s) D'Asia Scudder **Grade 7** **Town** Bridgeport

Suniya Crawley **Grade 7** **Town** Bridgeport

Bridgeport Read School Mr. Adebowale

5544 P8 2 Does the pH Level in Soil Affect the Amount of Electricity it Conducts?

Student(s) Alexia Andrade **Grade 8** **Town** Bridgeport

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Bridgeport Roosevelt School Kelsey Bohnert
1022 LT 3 Are You Using the Right Toothpaste
Student(s) **Stephan Desir** Grade 7 Town Bridgeport
Moeen Khawaja Grade 7 Town Bridgeport

Bridgeport Thomas Hooker School Mr. Roman
5525 P8 3 Which Sail Can Make A Boat Move Faster?
Student(s) **Annabella Simon** Grade 8 Town Bridgeport

Bridgeport Waltersville School Miss Kendrick
2523 L8 3 Memory Mnemonics
Student(s) **Jalene Rivera** Grade 8 Town Bridgeport

Bridgeport Warren Harding High School Lilliam I. Solis
6075 PS 3 The Plant and the Microwave
Student(s) **Jais Cordonero** Grade 9 Town Bridgeport

Bridgeport Warren Harding High School Vidyotma Gupta
6065 PS 3 Penny Cleaners
Student(s) **Ky Duyen Le** Grade 10 Town Bridgeport

Bridgeport Winthrop School Gregory Walsh
5502 P8 3 Graffiti Removal
Student(s) **Elizabeth Terry** Grade 8 Town Bridgeport

Bristol St. Paul Catholic High School Mr Aliberti
6006 PS 2 A Novel Approach To Help Households Use Less Water
Student(s) **Kamila Krawczuk** Grade 10 Town New Britain

Broad Brook Masthay - Homeschool Melissa Masthay
2021 L7 2 Shining Light on Transpiration
Student(s) **Allison Masthay** Grade 7 Town Broad Brook

Broad Brook Masthay - Homeschool Melissa Masthay
3092 LS 3 Exploring the Effects of Eutrophication on an Aquatic Ecosystem
Student(s) **Jamie Masthay** Grade 10 Town Broad Brook

Canton Canton High School Stephen Riley
6084 PS 1 Saxophone Overtones
Student(s) **Zachary Oliver** Grade 12 Town Canton

Canton Canton High School Stephen Riley
3006 LS 3 How does UV light affect the growth of bacteria
Student(s) **Morgan Schroeter** Grade 12 Town Canton

Canton Canton High School Stephen Riley
6002 PS 2 Rhodamine 6G Dye Laser
Student(s) **John Solomon** Grade 12 Town Canton

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Canton Canton Middle School Mr. Riley
4026 PT 1 The Note Glove
Student(s) **Gabriel Mower** Grade 8 Town Canton
Adam Obrzut Grade 8 Town Canton

Cheshire Cheshire High School Julie Barker
3005 LS 2 Cancer Indices and Circadian Rhythm Disruption: The Influence of Geographic Location within Time Zones
Student(s) **Shangda Xu** Grade 12 Town Cheshire

Cheshire St. Bridget School Mrs. Michelle Carroll
5547 P8 2 What Generates More Electricity?
Student(s) **Vishesh Kumar** Grade 8 Town Cheshire

Cheshire St. Bridget School Michelle Carroll
5006 P7 2 Make the Wind Work for You
Student(s) **Walker Luoma-Blagys** Grade 7 Town Cheshire

Danbury Immaculate High School Mrs. Bridget Henry
6003 PS 3 Star Type's Effect On Planetary Habitability
Student(s) **Nolan Ames** Grade 10 Town Danbury

Danbury Immaculate High School Mrs. Bridget Henry
6042 PS 1 Novel Glycerol-Free Biodiesel Production Using Enzyme Catalysis
Student(s) **Martha Haddad** Grade 11 Town Danbury

Danbury St. Gregory the Great School Christine Fahey
2519 L8 2 A Comparison of Mineral and Organic Fertilizer on the Growth of Black Simpson Baby Lettuce in an indoor, controlled Environment.
Student(s) **Kieran Doolabh** Grade 8 Town Danbury

Danbury St. Gregory The Great School Mrs. Fahey
4012 PT 2 "Do All Liquids Evaporate At The Same Rate?"
Student(s) **Gianna Fanelli** Grade 7 Town Danbury
Sofia Suarez Grade 7 Town Danbury

Danbury St. Gregory the Great School Christine Fahey
5521 P8 2 Electrons...A Pet's Best Friend
Student(s) **Elizabeth Flaherty** Grade 8 Town New Fairfield

Danbury St. Gregory the Great School Mrs. Fahey
5022 P7 3 Stretchy Science
Student(s) **Olivia Halas** Grade 7 Town Danbury

Danbury St. Gregory the Great School Christine Fahey
2504 L8 3 Celling Power
Student(s) **George Hyland** Grade 8 Town New Fairfield

Danbury St. Gregory the Great School Christine Fahey
1020 LT 1 The Effect of Salt on Plant Growth
Student(s) **Eric McNamara** Grade 7 Town Danbury
Thomas Fahey Grade 7 Town Danbury

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Danbury St. Gregory the Great School Mrs. Fahey

1024	LT	1	Let's Go Bananas! The Effect Of Ripeness On Banana DNA Extraction
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Student(s)	Zachary Meyerson	Grade 7	Town Danbury
	Dionie Smith	Grade 7	Town Danbury

Danbury St. Gregory the Great School Christine Fahey

2526	L8	1	An Egg-cellent Experiment
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Student(s)	Analiese Seaman	Grade 8	Town New Fairfield
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Danbury St. Joseph School Mrs. Reilly

5558	P8	2	Cleaning up Oil Spills - What Material is the Most Absorbent?
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Student(s)	Olivia Casino	Grade 8	Town Brewster
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Danbury St. Joseph School Mrs. Jennifer Reilly

5533	P8	2	Electrolytes: Which Sport Drinks Helps the Body Recover the Most After An Endurance Workout?
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Student(s)	Brigid Gage	Grade 8	Town Danbury
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Danbury St. Joseph School Jennifer Reilly

5509	P8	1	Different Quantities of Blades Used for Producing the Most Power
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Student(s)	Sean Guiry	Grade 8	Town Danbury
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Danbury St. Joseph School Jennifer Reilly

5004	P7	1	Efficient Low Energy Salt Water Desalination
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Student(s)	Elias Haddad	Grade 7	Town Danbury
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Danbury St. Joseph School Jennifer Reilly

1003	LT	2	What Genre of Music Makes You Run the Fastest?
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Student(s)	Emma Halas	Grade 7	Town Danbury
	Ailene Doherty	Grade 7	Town Danbury

Danbury St. Joseph School Jennifer Reilly

1015	LT	2	The effect of x-ray radiation on the reproduction of Fruit Flies.
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Student(s)	Patrick Iannetta	Grade 8	Town Danbury
	James O'Keefe	Grade 8	Town Danbury

Danbury St. Joseph School Jennifer Reilly

2538	L8	1	Influence of Climate Change on Lobster Population in Buzzards Bay Massachusetts: Implications for Long Island Sound
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Student(s)	Bradley Kerr	Grade 8	Town Danbury
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Danbury St. Joseph School Jennifer Reilly

1032	LT	3	Preventing Bacteria Growth in Food
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Student(s)	Matthew Riggs	Grade 7	Town Danbury
	Steven Soto	Grade 7	Town Danbury

Danbury St. Joseph School Jennifer Reilly

4040	PT	3	Kings of Slings: The Effect of Sling Length on a Trebuchet
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Student(s)	Shayne Simmons	Grade 8	Town Danbury
	Diego Echavarria	Grade 8	Town New Milford

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Danbury St. Joseph School Jennifer Reilly
2017 L7 2 The Stroop Effect
Student(s) Nora Yastremski **Grade 7** **Town** Danbury

Danbury Westside Middle School Academy Jonathan Neuhausel
5009 P7 2 How Does Angle and Distance Affect Splatter?
Student(s) Connor Barrigas **Grade 7** **Town** Danbury

Danbury Westside Middle School Academy Mr. Neuhausel
2529 L8 2 Can A Mineral Based Water Filtration System Eliminate Daphnia Preventing Dracunculiasis?
Student(s) Sarah Barta **Grade 8** **Town** Danbury

Danbury Westside Middle School Academy Jonathan Neuhausel
2031 L8 1 Dirty to Clean
Student(s) Luke Hickey **Grade 8** **Town** Danbury

Danbury Westside Middle School Academy Jonathan Neuhausel
1023 LT 1 Mutagenesis in Bacteriophage Phi X174 to Induce a Target Host of Escherichia Vulneris
Student(s) Sarah Johnson **Grade 8** **Town** Danbury
Anjeli Joseph **Grade 8** **Town** Danbury

Danbury Westside Middle School Academy Jonathan Neuhausel
2005 L7 1 Study of Various Starch-based Biopolymers
Student(s) Lasya Josyula **Grade 7** **Town** Danbury

Danbury Westside Middle School Academy Mr. Jonathan Neuhausel
2049 L7 2 Effect of Watering Green Vegetable Plants With Chlorophyll-Rich Solutions to Increase Overall Chlorophyll Content
Student(s) Benjamin Laham **Grade 7** **Town** Danbury

Danbury Westside Middle School Academy Mr. Neuhausel
5530 P8 1 Harvesting Wind From Street Canyons Using A Double Helix Wind Turbine
Student(s) Jeffrey Osborne **Grade 8** **Town** Danbury

Danbury Westside Middle School Academy Mr. Neuhausel
2009 L7 1 Ground Level Ozone in Danbury
Student(s) Nicholas Raslavsky **Grade 7** **Town** Danbury

Danbury Westside Middle School Academy Jonathon Neuhausel
5561 P8 1 The effect that different ingredient ratios have on the mechanical strength of bioplastics.
Student(s) Sanjana Shriram **Grade 8** **Town** Danbury

Danbury Westside Middle School Academy Jonathan Neuhausel
5035 P7 1 Effect of Nozzle Size for Compressed Air Water Rockets
Student(s) Gryffin Syme **Grade 7** **Town** Danbury

Darien Darien High School Mrs. Leventhal
3107 LS 2 Targeted Therapies for KRAS Mutant Cancers
Student(s) Sarishka Desai **Grade 12** **Town** Darien

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Darien Darien High School Christine Leventhal
3123 LS 2 The Relationship Between Exposure to Proton Pump Inhibitors and Risk for Bacteremia in ICU Patients:
A Retrospective Cohort Study
Student(s) Johnathan Stimpson **Grade 11** **Town** Darien

Darien Darien High School David Lewis
3060 LS 2 The Influence of the LGI-1 Gene on Cognition of APP/PS1 Alzheimer's Disease Mouse Models
Student(s) Katie Tsui **Grade 12** **Town** Darien

Enfield St. Martha School Katie Rose Boissonneault
1029 LT 2 Backyard Biofuel (Which plant makes the best biomass briquette?)
Student(s) Antony Auzina **Grade 7** **Town** Enfield
Colby Corriveau **Grade 7** **Town** Springfield

Enfield St. Martha School Katie Rose Boissonneault
2010 L7 1 The Effect of Caffeine on Plant Growth
Student(s) Katherine DeVito **Grade 7** **Town** Enfield

Enfield St. Martha School Katie Rose Boissonneault
2052 L7 3 The Power of Fruits and Veggies! How Much Electrical Power do they produce?
Student(s) Matthew Emerson **Grade 7** **Town** Broad Brook

Enfield St. Martha School Katie Rose Boissonneault
2543 L8 3 acid-base chemistry: bath bombs
Student(s) Alessandra Good **Grade 8** **Town** Enfield

Enfield St. Martha School Dr. Boissonneault
2524 L8 2 Exploring the effects of acids and temperature on the rate of corrosion
Student(s) Ashley Harding **Grade 8** **Town** Enfield

Enfield St. Martha School Katie Rose Boissonneault
1008 LT 3 Exploring The Chemistry of Red Flower Pigments
Student(s) Kayleigh Leduc **Grade 7** **Town** Enfield
Mary Eckel **Grade 7** **Town** Enfield

Enfield St. Martha School Katie Rose Boissonneault
1010 LT 2 Bye-Bye Bacteria: The Effect of Different Disinfectants on the Growth of E.coli
Student(s) Isabella Piazza **Grade 7** **Town** Ellington
Jacqueline Beaulieu **Grade 7** **Town** Somers

Enfield St. Martha School Katie Rose Boissonneault
2003 L7 1 Si High, Low, or No: Algae where would you like to grow?
Student(s) Stephen Rougeot **Grade 7** **Town** Enfield

Fairfield Fairfield College Preparatory School Deborah Kiel
6052 PS 2 Application of Computer Vision in Pupil and Eye Center Tracking
Student(s) Hanson Mo **Grade 11** **Town** Fairfield

Fairfield Fairfield College Preparatory School Mrs. Kiel
6058 PS 3 On Analyzing Modern Quantum Computation
Student(s) Junlin Mo **Grade 11** **Town** Bridgeport

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Fairfield Fairfield College Preparatory School Mrs. Kiel

3015 LS 1 Examining the effectiveness of phytoremediation of heavy metals in water using Elodea Canadensis and Brassia Juncea.

Student(s) Jonathan Siveyer **Grade** 11 **Town** Monroe

Fairfield Fairfield College Preparatory School Mrs. Kiel

6049 PS 2 Making Wonderful Pictures

Student(s) Haoxiang Zhang **Grade** 10 **Town** Wilton

Fishers Island Fishers Island School Carol Giles

3087 LS 3 Effect of Music and Art Therapy on Human Heart Rate

Student(s) Thaddeus Allen **Grade** 11 **Town** New London

Fishers Island Fishers Island School Carol Giles

3074 LS 2 Sugar Rush

Student(s) Alan Eastman **Grade** 12 **Town** Fishers Island

Fishers Island Fishers Island School Mrs. Carol Giles

3013 LS 2 Assessing the Efficiency and Ecological Impact of Various Anti-fouling Methods

Student(s) Elias Kane **Grade** 12 **Town** Groton

Fishers Island Fishers Island School Carol Giles

3070 LS 2 De-Statolization; The Effect of Ocean Acidification on Squid

Student(s) Charles Snyder **Grade** 11 **Town** Stonington

Fishers Island Fishers Island School Carol Giles

3010 LS 2 Densities of Phytoplankton in an Acidic Ocean

Student(s) Mackenzie Switz **Grade** 12 **Town** Stonington

Forestville St. Matthew School Mrs. MaryEllen Schigas

2531 L8 2 Designing a Water Purification System

Student(s) Daniel Gaudoin **Grade** 8 **Town** Bristol

Forestville St. Matthew School Mrs. MaryEllen Schigas

2045 L7 3 Prosthetics
Making the disabled able.

Student(s) Sophia Gerst **Grade** 7 **Town** Bristol

Forestville St. Matthew School Mrs. MaryEllen Schigas

2540 L8 3 Designing a Water Purification System

Student(s) Seokhyun Hong **Grade** 8 **Town** Plantsville

Forestville St. Matthew School Mrs. MaryEllen Schigas

2038 L7 2 Building a Prosthetic Hand

Student(s) Nina Zwolinski **Grade** 7 **Town** Bristol

Glastonbury Glastonbury High School Diane Pintavalle

6054 PS 1 Effectiveness of Amino Acid-Functionalized Gold Nanoparticles for Colorimetric Detection of Mercury in Water

Student(s) Danielle Cai **Grade** 10 **Town** Glastonbury

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Glastonbury Glastonbury High School Diane Pintavalle
 3040 LS 2 Identification of Differentially Expressed Genes of Membrane-Bound Proteins as Potential Targets for Osteosarcoma Therapy
Student(s) Reshana Homma **Grade** 11 **Town** Glastonbury

Glastonbury Glastonbury High School Diane Pintavalle
 3069 LS 1 Significance of osteosarcoma tumors of different stages, histological phenotypes, and clinical outcomes on the expression of BMP2
Student(s) Kanika Malani **Grade** 12 **Town** Glastonbury

Glastonbury Glastonbury High School Diane Pintavalle
 3049 LS 2 Assessing the Effectivity of Instructional Videos in Medical Education: A Meta-Analysis Study
Student(s) Mikayla Morosky **Grade** 11 **Town** Glastonbury

Glastonbury Glastonbury High School Sara Almeida
 3075 LS 2 THE CHANGES IN GENE EXPRESSION BETWEEN NORMAL BONE CELLS AND OSTEOSARCOMA TUMOR CELLS
Student(s) Pallavi Reddy **Grade** 12 **Town** Glastonbury

Glastonbury Glastonbury High School Ms. Pintavalle
 3095 LS 2 Structure-Activity Relationship Study of Dual Inhibitors of Streptococcus Pyogenes and Methicillin-resistant Staphylococcus Aureus
Student(s) Sara Tavakoli **Grade** 12 **Town** Glastonbury

Glastonbury Glastonbury High School Ms. Diane Pintavalle
 6004 PS 2 Sudoku Algorithm Efficiency
Student(s) Taylore Westbrook **Grade** 12 **Town** Glastonbury

Glastonbury Smith Middle School Mary Coburn
 5526 P8 2 Li-Fi: How bright should LEDs be to accurately transmit data?
Student(s) Arjun Ahilan **Grade** 8 **Town** Glastonbury

Greens Farms Greens Farms Academy Sara Campolettano
 5505 P8 3 De-icing: Identification of materials with the capability to lessen the impact of ice formation on roadways
Student(s) Ethan Lior **Grade** 8 **Town** Fairfield

Greens Farms Greens Farms Academy Dr. Freeman
 6005 PS 1 Optimization of the Venturi Effect With Applications in Horizontal-Axis Hydroelectric Turbines in Order to Maximize Power Coefficients
Student(s) Simon Stone **Grade** 12 **Town** Wilton

Greens Farms Greens Farms Academy Dr. Mathieu Freeman
 3019 LS 1 Evaluation of the Health of Bermuda's Reefs Based on Fish and Coral Populations
Student(s) Abby Viton **Grade** 12 **Town** Greenwich

Greenwich Brunswick School Dana Montanez
 3043 LS 2 An investigation of the ability of Pseudomonas putida to counteract Elevated Heart Rate in Daphnia Magna Exposed to Nicotine
Student(s) Jack Driscoll **Grade** 10 **Town** Greenwich

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Greenwich	Brunswick School	Dana Montanez	6504	PST	2	Improving Methodologies for Preclinical Data Collection: Tracking Motion of Biological Test Subjects in Laboratory Environments	Student(s) Matthew Jacobson	Grade 10	Town Greenwich
							Avi Mukherjee	Grade 10	Town Stamford
Greenwich	Brunswick School	Dana Montanez	6511	PST	2	Soil Remediation: Removing Contaminants by Means of Thermal Desorption Followed by Remineralization Through Addition of Organic Material	Student(s) Andrew Mellert	Grade 11	Town Greenwich
							William Gorman	Grade 11	Town Bedford
Greenwich	Brunswick School	Dana Montanez	6037	PS	2	Optimizing Efficiency of Urban, Track-based Rapid Transit Systems	Student(s) Wesley Peisch	Grade 10	Town Greenwich
Greenwich	Brunswick School	Dana Montanez	6529	PST	1	The Future of the Prosthetic Limb: Sacrificing Visual Aesthetics and Individualized Movement to Yield Greater Strength and Utility	Student(s) Matt Restieri	Grade 10	Town Riverside
							Chris Burdick	Grade 10	Town Riverside
							Greyson Wolfram	Grade 10	Town Riverside
Greenwich	Brunswick School	Dana Montanez	6031	PS	2	Improving Standard of Living for Refugees: Use of Recycled Materials to modify internal temperature and dryness, and to provide electricity and water in tented housing	Student(s) Lachlan Rosato	Grade 11	Town Greenwich
Greenwich	Brunswick School	Dana Montanez	3056	LS	3	Optimizing growth of Phaseolus vulgaris using Hawaiian Cinder Cone soil as a proxy for agricultural conditions on Mars	Student(s) Nick Saah	Grade 10	Town Darien
Greenwich	Brunswick School	Dana Montanez	3524	LST	1	Acropora and Anacropora Grafting: A Feasible Method to Reestablish Zooxanthellae Colonies following a Traumatic Bleaching Event	Student(s) Thacher Scannell	Grade 10	Town Stamford
							Edward Camel	Grade 10	Town Greenwich
Greenwich	Brunswick School	Dana Montanez	6524	PST	2	Extracting DNA from Canis latrans to Understand Interrelatedness Among a Transient Population	Student(s) Siyan Shaikh	Grade 11	Town Stamford
							Tucker Calcano	Grade 11	Town Greenwich
Greenwich	Brunswick School	Dana Montanez	3082	LS	1	Observing the Synergistic Effect of Pesticides on Terrestrial and Aquatic Ecosystems	Student(s) John Stefanou	Grade 11	Town Old Greenwich
Greenwich	Brunswick School	Dana Montanez	3527	LST	1	Investigating the feasibility of a cooperative yeast-algae biofuel production system and its effects on biomass and resulting impurities	Student(s) Alexander Wada	Grade 11	Town Old Greenwich
							Colin MacFaddin	Grade 11	Town Cos Cob

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Greenwich Convent of the Sacred Heart Joyce Reed

2509 L8 2 Acidification of Oceans

Student(s) Giselle Grey **Grade 8** **Town** Greenwich

Greenwich Greenwich Catholic School Mrs. Lutz

4027 PT 1 Catch Me If You Can

Student(s) Dylan Allman **Grade 8** **Town** Stamford

Harrison Day **Grade 8** **Town** Stamford

Greenwich Greenwich Catholic School Carol Lutz

1009 LT 2 Wormaculture

Student(s) Dylan Lombardo **Grade 7** **Town** Stamford

Will Carroll **Grade 7** **Town** Stamford

Martin Santos **Grade 7** **Town** Greenwich

Greenwich Greenwich Catholic School Mrs. Carol Ann Lutz

4025 PT 3 Blown Away

Student(s) Daniel Mabes **Grade 8** **Town** Greenwich

Andrew Lencyk **Grade 8** **Town** Stamford

Greenwich Greenwich Catholic School Carol Ann Lutz

1028 LT 2 Terrific Tardigrades

Student(s) James McCann **Grade 7** **Town** Greenwich

Sean Robichaux **Grade 7** **Town** Stamford

Greenwich Greenwich High School Andrew Bramante

3078 LS 2 Synthesis of Thermosensitive Magnetoliposomes for the Treatment of Atherosclerosis via Controlled Drug Delivery & Magnetic Hyperthermia

Student(s) Margaret Cirino **Grade 11** **Town** Greenwich

Greenwich Greenwich High School Andy Bramante

3085 LS 2 Delivery of Docetaxel via a Modified PEGylated Graphene Oxide Carrier to Inhibit Growth of Prostate Cancer Stem Cells

Student(s) Henry Dowling **Grade 11** **Town** Riverside

Greenwich Greenwich High School Andrew Bramante

6043 PS 1 Construction of an Agonistic Pneumatic Artificial Muscle Air Conservation System

Student(s) Wesley Heim **Grade 10** **Town** Cos Cob

Greenwich Greenwich High School Andrew Bramante

3008 LS 1 Investigating the Proteolytic Effect of Serine Protease Against Staphylococcus Aureus Biofilm Formation on Glass and Stainless Steel Surface Chips

Student(s) Takema Kajita **Grade 11** **Town** Cos Cob

Greenwich Greenwich High School Andrew Bramante

6048 PS 1 Fabrication of a Magnetically Vertical-Aligned Boron Nitride Nanotube Membrane in a Lyotropic Precursor for Salinity Gradient Power

Student(s) Connor Li **Grade 11** **Town** Cos Cob

Greenwich Greenwich High School Andrew Bramante

6055 PS 1 Increased Charge Rate and Capacity for Olivine Lithium-Ion Batteries Using Efficient, Upcycled Nanoscale Electrodes

Student(s) Christopher Popham **Grade 11** **Town** Old Greenwich

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Greenwich Greenwich High School Bramante

3002	LS	1	The Optimization of Nanoparticle-based Drug Delivery of Melittin in A Selective, Biocompatible Method to Target HIV Structural Antigen p24
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Student(s) Sanju Sathish **Grade** 11 **Town** Greenwich

Greenwich Greenwich High School Andy Bramante

3088	LS	2	Facilitated Delivery of Mitoxantrone Chemotherapy via High-load Citric Acid Coated Magnetite Nanoparticles
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Student(s) Agustina Stefani **Grade** 11 **Town** Greenwich

Greenwich Greenwich High School Andrew Bramante

6057	PS	1	Water Droplet Repulsion and Reduced Icing Tendencies on Superhydrophobic Surfaces
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Student(s) Haley Stober **Grade** 10 **Town** Old Greenwich

Greenwich Greenwich High School Andrew Bramante

3081	LS	2	The Effect Of Common Cold and Flu Medications on Gut Bacteria
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Student(s) Rahul Subramaniam **Grade** 9 **Town** Cos Cob

Greenwich Greenwich High School Andrew Bramante

3065	LS	2	In silico Prediction of Breast Cancer Cellular Response to Drug Therapies using Random Forests Algorithms
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Student(s) Shobhita Sundaram **Grade** 10 **Town** Greenwich

Greenwich Greenwich High School Andrew Bramante

3004	LS	2	Battling Honey Bee CCD via Reduction of Neonicotinoid Content in Guttation Droplets using Biochar Soil Additives
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Student(s) Derek Woo **Grade** 11 **Town** Greenwich

Greenwich Greenwich High School Andrew Bramante

3033	LS	2	Open-Wound Administration of Coagulant and Antibacterial Therapeutics via CaCO ₃ Microparticle Self-propulsion
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Student(s) Michelle Woo **Grade** 10 **Town** Riverside

Greenwich Greenwich High School Andrew Bramante

3110	LS	2	Oral delivery of insulin therapy via low cost, pH sensitive hydrogels
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Student(s) Michelle Xiong **Grade** 10 **Town** Riverside

Greenwich Greenwich High School Mr. Andrew Bramante

3029	LS	2	Development of a Portable, Tattoo-Based Biosensor for the Non-Invasive, Low-Cost Diagnosis of Atherosclerosis via Iontophoresis of Macrophage-Targeting Silver Nanoparticles
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Student(s) William Yin **Grade** 11 **Town** Riverside

Greenwich Greenwich High School Andrew Bramante

6015	PS	1	Self-Sustaining Biosynthesis of Methane from CO ₂ via a Microbial & Electrochemical Hybrid System
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Student(s) Devyn Zaminski **Grade** 11 **Town** Greenwich

Greenwich Greenwich High School Andrew Bramante

3100	LS	1	Enhanced Cellulolytic Enzyme Production by the Synergism between Trichoderma reesei and Aspergillus niger for the Production of Cellulosic Biofuel via Enzymatic Saccharification of Perennial
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Student(s) Teresa Zheng **Grade** 12 **Town** Greenwich

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Greenwich Greenwich High School Andrew Bramante

3012 LS 1 Selective Improvement in Anti-Cancer Drug Sensitivity via D-Glucosamine Inhibition of STAT3 Oncogenic Expression

Student(s) Madeleine Zhou **Grade** 11 **Town** Old Greenwich

Groton Sacred Heart School Merrijo Logan

2511 L8 3 What Happens When Eggs are Exposed to Vinegar?

Student(s) Bethany Chavez **Grade** 8 **Town** New London

Groton Sacred Heart School Mrs. Merrijo Logan

2036 L8 2 Do All Liquids Release the Same Amount of Gas in the Stomach?

Student(s) Diego Cruz **Grade** 8 **Town** New London

Groton Sacred Heart School Mrs. Merrijo Logan

5517 P8 3 Melting Ice with Sand and Salt

Student(s) Breanna Hoth **Grade** 8 **Town** Gales Ferry

Groton Sacred Heart School Merrijo Logan

5039 P7 1 Induced Magnetism - Applying Lenz's Law

Student(s) Michael Luzzio **Grade** 7 **Town** Groton

Groton Sacred Heart School Mrs. Merrijo Logan

2528 L8 2 Does Eye Color Affect Peripheral Vision?

Student(s) Melissa Mancuso **Grade** 8 **Town** Mystic

Groton Sacred Heart School Mrs. Logan

5519 P8 3 The effect of menu labeling with calories on food selection and consumption

Student(s) Isabella McClure **Grade** 8 **Town** Mystic

Groton Sacred Heart School Merrijo Logan

2532 L8 3 T.E.E.T.H
The Egg Enamel Teeth Heath watch

Student(s) Lauren O'Donnell **Grade** 8 **Town** Mystic

Groton Sacred Heart School Mrs. Logan

2539 L8 3 CAN YOU FIND THE
THE MISTAKE?

Student(s) Emma Smith **Grade** 8 **Town** Groton

Groton Sacred Heart School Mrs. Merrijo Logan

5549 P8 3 Power From Potatoes

Student(s) Mark Smith **Grade** 8 **Town** New London

Groton Sacred Heart School Merrijo Logan

5524 P8 2 Electrolytes and Health

Student(s) Alexander Warmus **Grade** 8 **Town** Ledyard

Guilford E.C. Adams Middle School Ms. Meyerjack

1005 LT 1 The Effect of Different Types of Fruit on the Amount of DNA Extracted

Student(s) Edward Glover **Grade** 7 **Town** Guilford
Anthony Ippolito **Grade** 7 **Town** Guilford

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Guilford E.C. Adams Middle School Miss Meyerjack
 2067 L7 2 The Effect of pH Levels on Grass Growth
Student(s) Kevin Marquis **Grade 7** **Town** Guilford

Guilford E.C. Adams Middle School Mrs. Lynn Arnold
 1030 LT 2 Effect of Using An Electronic Before Going to Sleep On Deep Sleep Percentage
Student(s) Sydnie Schlagheck **Grade 7** **Town** Guilford
 Rosabianca Corbett **Grade 7** **Town** Guilford

Guilford E.C. Adams Middle School Parent-Hayash
 2008 L7 2 The Effects of Alternative Fertilizers (Eggshells and Coffee Grounds) on the Growth of Radishes
Student(s) Juliet Young **Grade 7** **Town** Guilford

Guilford E.C. Adams Middle School Kristen Meyerjack
 2040 L7 2 The effect of acidity on bacteria growth from toothbrushes
Student(s) Veronica Zimmer **Grade 7** **Town** Guilford

Hamden Hamden High School Mr. Martins
 3089 LS 1 CRISPR Based Gene Editing Confers Resistance to Human Immunodeficiency Virus (HIV)
Student(s) Aakshi Agarwal **Grade 11** **Town** Hamden

Hamden Hamden High School Danny Martins
 6011 PS 3 OptiEye - A Vision for the Future of Eye Care
Student(s) Akshar Agarwal **Grade 9** **Town** Hamden

Hamden Hamden High School Danny Martins
 6079 PS 2 Differentiation Between Fresh And Used Cooking Oils
Student(s) Ayush Dalmia **Grade 11** **Town** Hamden

Hamden Hamden Middle School Danny Martins
 5555 P8 2 Propeller Power
Student(s) Lizabeth Bamgboye **Grade 8** **Town** Hamden

Hamden Hamden Middle School Michelle DeLucia
 2542 L8 2 Effect of Pollutants on Aquatic Life
Student(s) Ella Bradford **Grade 8** **Town** Hamden

Hamden Hamden Middle School Danny Martins
 4037 PT 1 Nitrates and pH and Rain, Oh My!
Student(s) Paige Campbell **Grade 8** **Town** Hamden
 Katherine Bergherr-Hall **Grade 8** **Town** Hamden

Hamden Hamden Middle School Mr. Sgrigneri
 5536 P8 2 Measuring the strength of selected origami structures in order to build useful configurations like furniture.
Student(s) Jenna Estacion **Grade 8** **Town** Hamden

Hamden Hamden Middle School Danny Martins
 5540 P8 2 Need To Charge Your Cell Phone? Leave It To The Wind
Student(s) Quintin loime **Grade 8** **Town** Hamden

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Hamden Hamden Middle School Michelle DeLucia
6012 LT 3 Delicious or Dangerous
Student(s) **Mariam Khan** Grade 8 Town Hamden
Camaryn Reynolds Grade 8 Town Hamden

Hamden Sacred Heart Academy Mrs. Pam Brownell
6067 PS 3 Is Oobleck the Key to Solving Beach Erosion?
Student(s) **Ashley Amarante** Grade 10 Town Wallingford

Hamden Sacred Heart Academy Susan Nelson
3105 LS 2 The Effect of Polyphenols in Tea on Preventing E.Coli Growth
Student(s) **Katie Gray** Grade 9 Town Oxford

Hamden Sacred Heart Academy Mrs. Susan Nelson
3030 LS 2 Using the Physiological Energetics Model to Study the Effects of Contaminating Microscopic Plastic Particles on Blue Mussel, *Mytilus edulis*
Student(s) **Catherine Herrick** Grade 9 Town Sandy Hook

Hamden Sacred Heart Academy Pam Brownell
6530 PST 2 The Effect of Environmental Temperature on Glow Time of the Chemiluminescence of Luminol
Student(s) **Jiwon Jeong** Grade 10 Town Hamden
Madison Brenchak Grade 10 Town Seymour

Hamden Sacred Heart Academy Mrs. Brownell
6517 PST 1 Printing Skin: Using Different Polymer Filaments to Print a Prosthetic Covering
Student(s) **Eunji Lee** Grade 10 Town Trumbull
Priya Patel Grade 11 Town Derby

Hamden Sacred Heart Academy Mrs. Pamela Brownell
6076 PS 2 A Practical Use of the MFC Partial Air Cathode: Improving Performance by Implementing a New Design for Applications in a Conventional Septic System
Student(s) **Elizabeth LoPreiato** Grade 11 Town Berlin

Hamden Sacred Heart Academy Dr. Elizabeth Christophy
6027 PS 2 Examination of Different Wet Scrubber Sorbents in Reducing Acid Rain Production and Removing Solid Pollutants
Student(s) **Laura Mocchiola** Grade 10 Town Shelton

Hamden Sacred Heart Academy Mrs. Brownell
6083 PS 2 Is There Tin in My Fish?
Student(s) **Audrey Seyfried** Grade 10 Town Milford

Hamden Sacred Heart Academy Susan Nelson
3048 LS 2 The Effects of Technology on Aging
Student(s) **Vivian Wang** Grade 9 Town North Branford

Hartford Environmental Sciences Magnet at Mary Hooker Mr Clark
5016 P7 1 Corked?
Student(s) **Kevin Braunwart** Grade 7 Town Hebron

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Hartford Environmental Sciences Magnet at Mary Hooker Rebecca Hays
 2058 L7 2 Breeding in the Rain
Student(s) Alennie Cosme **Grade 7** **Town Hartford**

Hartford Environmental Sciences Magnet at Mary Hooker Rebecca Hays
 2550 L8 2 Hatch by Day, Hatch by Night:
 Brine Shrimp Egg Hatching Rate With Exposure to Light
Student(s) Tussan Hoyt **Grade 8** **Town Hartford**

Hartford Environmental Sciences Magnet at Mary Hooker Mrs. Hays
 2527 L8 1 Toadiet
Student(s) Jacob Naticha **Grade 8** **Town Winsted**

Hartford Environmental Sciences Magnet at Mary Hooker Mr. Clark
 2537 L8 2 There is Something in the Water
Student(s) Zackery Parsadanov **Grade 8** **Town Middletown**

Hartford Environmental Sciences Magnet at Mary Hooker Mrs. Hays
 2545 L8 2 Growing Plant Cuttings
Student(s) Masudur Rahman **Grade 8** **Town Harford**

Hartford Environmental Sciences Magnet at Mary Hooker Rebecca Hays
 2004 L7 2 Substrate and Vegetation Preference in Zebra Danio Spawning: A Study of Breeding Triggers
Student(s) Natalie Reeves **Grade 7** **Town Southington**

Hartford Environmental Sciences Magnet at Mary Hooker Becca Hays
 1025 LT 2 Got Bugs?
 A study of arthropod diversity and abundance
Student(s) Connor Rego **Grade 7** **Town Winsted**
Keegan Miller **Grade 7** **Town Bristol**

Hartford Environmental Sciences Magnet at Mary Hooker Travis Clark
 2001 L7 2 How does soil pH affect bean plants?
Student(s) Tyler Schloss **Grade 7** **Town Cromwell**

Hartford Environmental Sciences Magnet at Mary Hooker David Cappaert
 2507 L8 1 Man Vs Wild:
 A Study of Plant Biodiversity in Overgrown Ecosystems
Student(s) Austin Zemsta **Grade 8** **Town New Britain**

Hartford Kennelly School Ashley Bonet
 2057 L7 3 Fingerprints - Alike or Random?
Student(s) Daialy Amparo **Grade 7** **Town Hartford**

Hartford Kennelly School Ms. Bonet
 2516 L8 3 how does location affect PH levels in water
Student(s) Natalya Davis **Grade 8** **Town Hartford**

Hartford Kennelly School Ms. Bonet
 5543 P8 3 All About Drums
Student(s) Chris Espinal **Grade 8** **Town Hartford**

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Hartford Kennelly School Ms Bonet
2552 L8 3 THE WAY OF THE FUTURE- A LOOK AT MAKING BIOFUEL FROM DIFFERENT PLANTS
Student(s) **Damontey Harrison** Grade 8 Town Hartford

Hartford Kennelly School Ms. Bonet
5031 P7 2 Is the anti-gas drug simethicone effective in getting rid of trapped gas
Student(s) **Angelica Jiminian** Grade 7 Town Hartford

Hartford Kennelly School Ms. Bonet
2541 L8 3 Smoking Changes from 2012-2014
Student(s) **Demetrius Lee** Grade 8 Town Hartford

Hartford Kennelly School Ms. Bonet
2019 L7 3 Don't hate the player hate the game
Student(s) **Terryn Mahon** Grade 7 Town Hartford

Hartford Kennelly School Ashley Bonet
1017 LT 3 How good is your yogurt?
Student(s) **Genesis Vazquez** Grade 7 Town Hartford
Gabriella Perez Grade 7 Town Hartford
Victoria Rodriguez Grade 7 Town Hartford

Hartford Kennelly School Ms. Bonet
2063 L7 3 Are phones taking over our lives?
Student(s) **Alysha Zayas** Grade 7 Town Hartford

Hartford Sport and Medical Sciences Academy Marianne Vitali
5005 P7 1 Natural Plastic
Student(s) **Madison Lee** Grade 7 Town Rocky Hill

Hebron Oei - Homeschool Ellen McHugh
5026 P7 1 Hydropower Tiles: A Novel Approach to Harvesting Energy from Human Locomotion
Student(s) **John Oei** Grade 7 Town Hebron

Hebron RHAM Middle School Bob Clarke
2522 L8 2 Computer simulation if segregating students by classroom during lunch time during a viral outbreak will reduce the length of the viral outbreak and the number of students infected.
Student(s) **Isabelle Benson Clarke** Grade 8 Town Marlborough

Kent Kent School Lei Xue
3101 LS 3 Application of Drosophila male courtship choice in Alzheimer's disease research
Student(s) **Mi Hu** Grade 11 Town Kent

Lakeville The Hotchkiss School Richard Kyung
6045 PS 2 Metal Oxide Nanoparticles in Hexane Reactions
Student(s) **Byul Sohn** Grade 11 Town Lakeville

Madison Daniel Hand High School Madhuparna Roychoudhury
6053 PS 2 A practical method for CO2 capture by recovering dissolved CO2 in ocean water.
Student(s) **Ankita Roychoudhury** Grade 11 Town Madison

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Manchester Manchester High School Mrs. Megan Rader

3068 LS 3 Effect of Effect of Marine Aquaculture in Classroom On Atlantic Horseshoe Crab (Limulus Polyphemus) Growth and Development.

Student(s) Jay Dalal **Grade** 12 **Town** Manchester

Manchester St. Bridget School Mrs. maysonet

5501 P8 2 What Substance Melts Ice The Fastest?

Student(s) Myia Chappell **Grade** 8 **Town** east hartford

Manchester St. Bridget School Mrs. Maysonet

5015 P7 2 Pounds Per Square Inch (PSI) of a Basketball

Student(s) Matthew Prior **Grade** 7 **Town** Coventry

Manchester St. Bridget School Mrs. Maysonet

5568 P8 2 Testing to Improve the Performance of a Magnetic Linear Accelerator

Student(s) Ashleigh Purcell **Grade** 8 **Town** Manchester

Manchester St. James School Mrs. Plante

4011 PT 3 Reflected Light: What material reflects the most light?

Student(s) Chris Constantine **Grade** 7 **Town** Hebron
Alexander Gregory Setzler **Grade** 7 **Town** Manchester

Manchester St. James School Mrs. Plante

4018 PT 2 Does Your Age Affect Your Reflexes

Student(s) Nathan Kincheloe **Grade** 7 **Town** Manchester
Anna DeLaura **Grade** 7 **Town** Manchester

Manchester St. James School Mrs. Plante

4003 PT 3 Nailed It
Nails and Liquids That Corrode Them

Student(s) Kate Leyden **Grade** 7 **Town** Manchester
Max Lambert **Grade** 7 **Town** Manchester

Manchester St. James School Mrs. Plante

4033 PT 3 Glowing Minerals

Student(s) Colleen Truman **Grade** 7 **Town** Manchester
Alice Tyszka **Grade** 7 **Town** Manchester

Manchester St. James School Mrs. Plante

4024 PT 2 Dancing Oobleck

Student(s) Maeve Williams **Grade** 7 **Town** Manchester
Izabella Ray **Grade** 7 **Town** Manchester

Meriden ACES Thomas Edison Middle School Frances Creem

5028 P7 2 Renewable Energy

Student(s) Noah Anderson **Grade** 7 **Town** Middletown

Meriden ACES Thomas Edison Middle School Kim Martino

4038 PT 3 Hitting the Slopes

Student(s) Adriana Aponte **Grade** 7 **Town** Meriden
Majda Adnane **Grade** 7 **Town** Meriden

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Meriden ACES Thomas Edison Middle School Todd Solli
5019 P7 2 How Does Height Affect Structure Stability?
Student(s) Kaya Cook **Grade 7** **Town** Middletown

Meriden ACES Thomas Edison Middle School Caitlin Lombardi
5570 P8 2 Electromagnet Electricity
Student(s) J H Naem **Grade 8** **Town** Meriden

Meriden ACES Thomas Edison Middle School Susan Dalo
5503 P8 3 Tracking storage capacity on media discs
Student(s) Kaitlyn Newman **Grade 8** **Town** Middletown

Meriden ACES Thomas Edison Middle School Todd Solli
4022 PT 3 Is Sharpie Extreme Really Permanent?
Student(s) Brianna Oliveras **Grade 7** **Town** Meriden
Mikaela Mitchell **Grade 7** **Town** Meriden

Meriden ACES Thomas Edison Middle School Caitlin Lombardi
5516 P8 2 Coastal Engineering
Student(s) Ke-Aira Spells **Grade 8** **Town** Meriden

Meriden ACES Thomas Edison Middle School Susan Dalo
1014 LT 2 Which Beverages Stain Your Teeth The Most?
Student(s) Kelly Tran **Grade 8** **Town** Meriden
Gabriella Dearborn **Grade 8** **Town** Meriden

Meriden ACES Thomas Edison Middle School Mrs. Creem
5024 P7 2 How does the shape of the blade affect the Voltage?
Student(s) Elyssa West **Grade 7** **Town** Meriden

Meriden ACES Thomas Edison Middle School Angel Tangney
2048 L7 3 Do different types of music affect the rate at which domesticated cats eat?
Student(s) Patrick Wiliarty **Grade 7** **Town** Middletown

Meriden St. Joseph School Mrs. Sniffin
5542 P8 3 Do Colored Candles Burn Faster or Slower Than White Candles?
Student(s) Emily Cruz **Grade 8** **Town** Meriden

Meriden St. Joseph School Mrs. Sniffin
5564 P8 3 Freezing Hot and Cold Water
Student(s) Emily Esposito **Grade 8** **Town** Meriden

Meriden St. Joseph School Mrs. Sniffin
2505 L8 3 Does Music Affect Heart Rate?
Student(s) Teresa Haggerty **Grade 8** **Town** Meriden

Meriden St. Joseph School Mrs. Sniffin
5553 P8 3 Drop Test
Student(s) Aidan Lewoc **Grade 8** **Town** Meriden

Conn. Science & Engineering Fair

Preliminary Judging Results

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

Meriden St. Joseph School Mrs. Sniffin
5038 P7 3 which brand of popcorn has the least amount of un-popped kernel after you pop it?
Student(s) Sydney McIntosh **Grade 7** **Town** Naugatuck

Meriden St. Joseph School Mrs. Sniffin
2520 L8 2 Why do certain colors stand out to certain people more than others?
Student(s) Annelise Montuori **Grade 8** **Town** Meriden

Meriden St. Joseph School Mrs. Sniffin
5511 P8 2 What type of cup keeps coffee the hottest the longest?
Student(s) Mary Sirois **Grade 8** **Town** Meriden

Meriden St. Joseph School Mrs. Sniffin
2544 L8 2 Results and Effects of Changes in Youth Basketball Positions
Student(s) Madison Whittle **Grade 8** **Town** Meriden

Middlebury Westover School Ben Hildebrand
6009 PS 1 The Pick Me Up Stander Walker: Designing A Device to Assist with Sit to Stand Transfers and Ambulation
Student(s) Caleigh Waskowicz **Grade 12** **Town** Southington

Middletown Xavier High School Mr. David Applegate
6532 PST 2 How Acidic are our Oceans?
pH of Sea Water VS Varying Amounts of Carbon Dioxide stoichiometrically calculated from three fuels
Student(s) Evan Rigsby **Grade 12** **Town** Kensington
Christopher Yerxa **Grade 12** **Town** Guilford

Milford St. Gabriel School Mr. John Campbell
5025 P7 2 Wind Power
Student(s) Jacob Fleischer **Grade 7** **Town** Milford

Milford St. Gabriel School John Campbell
2064 L7 3 Shorty
Student(s) Madilyn Lula **Grade 7** **Town** Milford

Milford St. Gabriel School Mr. John Campbell
5538 P8 3 The Effect Temperature Has on UV Beads
Student(s) Gabriel Quinn **Grade 8** **Town** Ansonia

Milford St. Gabriel School Mr. Campbell
5514 P8 2 Wire Recording
Student(s) Ethan Wicks **Grade 8** **Town** Milford

Monroe St. Jude School Mrs. Shea
2039 L7 2 Snuggly Cuddly Puppies: Puppies Keeping Warm
Student(s) Jacqueline O'Brochta **Grade 7** **Town** Monroe

Monroe St. Jude School Mrs. D. Shea
2503 L8 2 Utterly Sour Milk
Student(s) Olivia Peterson **Grade 8** **Town** Shelton

Conn. Science & Engineering Fair

Preliminary Judging Results

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

New Britain CREC Medical Professions & Teacher Prep Peter Wik

3072 LS 3 Microwaved Sprouting
Student(s) Hardhik Kummamuru **Grade 9** **Town** Windsor Locks

New Haven Engineering Science University Magnet School Roger Rushworth

5545 P8 1 Polyurethane Foam as Acoustic Insulation for uses in Aviation Technology
Student(s) Arya Bairat **Grade 8** **Town** Milford

New Haven Engineering Science University Magnet School Mr. Rushworth

2050 L7 3 How do microbeads affect plants?
Student(s) Meghana Cheela **Grade 7** **Town** Milford

New Haven Engineering Science University Magnet School Mr. Rushworth

2041 L7 3 PEST'S CONTROLLING US!
Student(s) Sreeya Gudlavalleti **Grade 7** **Town** Milford

New Haven Engineering Science University Magnet School Mr. Rushworth

5002 P7 2 Does Distance From a Nuclear Power Plant a Affect Plant Growth?
Student(s) Eva Heaphy **Grade 7** **Town** New Haven

New Haven Engineering Science University Magnet School Roger Rushworth

3084 LS 2 How do varying kinds of enzymes effect the efficiency of enzymatic hydrolysis on lignocellulic material to produce cellulosic ethanol through fermentation
Student(s) Sumanth Kondapalli **Grade 9** **Town** Milford

New Haven Engineering Science University Magnet School Heather Toothaker

3016 LS 2 An Evaluation of the Accuracy of an Advanced Nanoribbon Microfluidic System to Measure Cytokine Concentration
Student(s) Lauren Low **Grade 11** **Town** Hamden

New Haven Engineering Science University Magnet School Mr. Rushworth

2032 L7 3 Green Growth
Student(s) Suchitha Misra **Grade 7** **Town** Milford

New Haven Engineering Science University Magnet School Mr. Roger Rushworth

6022 PS 1 An Approach to Converting Pollutant CO2 Emissions into Methanol Fuels to Reduce Environmental Harm from Greenhouse Gases
Student(s) Prastik Mohanraj **Grade 9** **Town** Ansonia

New Haven Engineering Science University Magnet School Roger Rushworth

5552 P8 2 Is it Eco-Friendly?
Student(s) James Rodrigues **Grade 8** **Town** Milford

New Haven Engineering Science University Magnet School Roger Rushworth

5032 P7 3 How Does Rainfall Affect Erosion?
Student(s) Rachna Vipparla **Grade 7** **Town** Milford

New Haven Hill Regional Career High School Peter Dimoulas

3518 LST 2 Extracting Streptomyces From Soil
Student(s) Ghadah Ali **Grade 10** **Town** East Haven
Selma Abouneameh **Grade 10** **Town** Derby

Conn. Science & Engineering Fair

Preliminary Judging Results

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

New Haven Hill Regional Career High School Mr Dimoulas

6526 PST 3 Eco Friendly Batteries

Student(s) Mike Olivares

Grade 9 Town New Haven

Rich Tran

Grade 9 Town East Haven

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

5569 P8 3 Calibrating the agility of light with a microwave oven.

Student(s) Rehab Senanu

Grade 8 Town New Haven

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

5029 P7 2 MAKING CHEESE AT HOME, AS EASY AS 1-2-3?

Student(s) Amanda Simpson

Grade 7 Town New Haven

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

2530 L8 3 ELECTROLYTE CHALLENGE

Student(s) Jeremiah Vidal

Grade 8 Town New Haven

New Haven The Foote School Mrs. Leslie Long

2536 L8 2 Online Homework and Screen Time: Are We Going in the Right Direction!

Student(s) Anjali Mangla

Grade 8 Town Cheshire

New Haven Wilbur Cross High School Caroline Dahm

3045 LS 3 Polyetherketoneketone (PEKK) Surgical Implant: An alternative cure for Internal Coxa Saltans in Female Adolescents

Student(s) Sophie Edelstein

Grade 9 Town New Haven

New Haven Wilbur Cross High School Caroline Dahm

6038 PS 2 Exploring conditions for Struvite precipitation and crystal growth.

Student(s) Maya Geradi

Grade 10 Town New Haven

New Haven Worthington Hooker School Douglas Jones

2514 L8 2 Hydroponics Vs Soil Gardening

Student(s) Michael Bencivengo

Grade 8 Town New Haven

New Haven Worthington Hooker School Douglas Jones

5017 P7 3 Hot Plop Fizz. Hotter Plop fizz. Hottest Plop Fizz

Student(s) Catalina Homann

Grade 7 Town New Haven

New Haven Worthington Hooker School Douglas Jones

2023 L7 3 Death of Bouquets

Student(s) Taivan Jargalan

Grade 7 Town New Haven

New Haven Worthington Hooker School Douglas Jones

4015 PT 3 Magnetic Pull; Hot VS Cold

Student(s) Jason Lampo

Grade 8 Town New Haven

Declan McGinley

Grade 8 Town Milford

New Haven Worthington Hooker School Douglas Jones

5012 P7 1 Acing the Wing

Student(s) Alexandra Northrup

Grade 7 Town New Haven

Conn. Science & Engineering Fair

Preliminary Judging Results

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

New Haven Worthington Hooker School Douglas Jones

5507	P8	3	What Color Light Shines Brightest Through Fog?
Student(s) Ana Padilla			Grade 8 Town New Haven

New Haven Worthington Hooker School Douglas Jones

4004	PT	2	Salty Electrons
Student(s) Juliette Ranelli			Grade 8 Town New Haven
Mei Han			Grade 8 Town New Haven

New Haven Worthington Hooker School Mr. Jones

2056	L7	2	Plants: Natures stabilizer
Student(s) Sadie Turner			Grade 7 Town New Haven

New London Science and Technology Magnet HS Chuck Mulligan

3027	LS	1	Bioaccumulation of Total Mercury in the Poquonnock River System and its Implications for Local Fisheries
Student(s) Kathryn Ashbey			Grade 12 Town Waterford

New London Science and Technology Magnet HS Charles Mulligan

6513	PST	2	Electromagnetism as an alternate source of power?
Student(s) Nathaniel Bland			Grade 10 Town New London
Ethan Barnes			Grade 10 Town New London

New London Science and Technology Magnet HS Mr. Mulligan

6506	PST	2	Using Heat Sinks In Integrated Photovoltaic Systems To Enhance Hydrogen Production Through Electrolysis
Student(s) John Burnett			Grade 10 Town Ledyard
Austin Huang			Grade 10 Town Uncasville

New London Science and Technology Magnet HS Mr. Mulligan

3044	LS	3	Effects of Temperature on Oxygen Productivity of Marine Phytoplankton
Student(s) Adriana Diaz			Grade 10 Town New London

New London Science and Technology Magnet HS Chuck Mulligan

6522	PST	3	Optimization of Hydrofoil Performance Through Hybridization of Base Design
Student(s) Brynn Doughty			Grade 11 Town New London
Alyse Cornish			Grade 12 Town New London

New London Science and Technology Magnet HS Charles Mulligan

3509	LST	3	The Effect of Polarized Water on the Brassica rapa
Student(s) Precious Ehwareme			Grade 11 Town Norwich
Leon Bolle			Grade 11 Town Groton

New London Science and Technology Magnet HS Charles Mulligan

3099	LS	1	The Effects of Hydrocarbon Exposure on Expression of the CaMV 35S Promoter in Genetically Modified Soybeans
Student(s) Sylvia Guijarro-Sines			Grade 11 Town New London

New London Science and Technology Magnet HS Charles Mulligan

3502	LST	3	Runoff Effects on the Burial of Hermit Crabs
Student(s) Clara-Luz Hoffman			Grade 11 Town New London
Moli Michel			Grade 11 Town New London

Conn. Science & Engineering Fair

Preliminary Judging Results

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

New London Science and Technology Magnet HS Mr. Mulligan

6068	PS	2	The effect of Osmotic Balance, pH and Detergents have on Biological Membranes
Student(s) Emma Hurley			Grade 10 Town Gales Ferry

New London Science and Technology Magnet HS Mr. Mulligan

3522	LST	2	Nitrogen, Phosphorous, Potassium ratio effect on plant growth.
Student(s) Madison Keefe			Grade 10 Town New London
Student(s) Cora Sawyer			Grade 10 Town Stonington

New London Science and Technology Magnet HS Mr. Mulligan

6528	PST	3	The Efficiency of Bio diesel Blends compared to diesel engines
Student(s) Woodrich Pierre-Louis			Grade 11 Town New London
Student(s) Oscar Calcano			Grade 12 Town New London

New London Science and Technology Magnet HS Mr. Mulligan

3039	LS	1	After crude oil has been added to wild caught phytoplankton, does Dawn soap help the phytoplankton or does it deform it to a greater effect?
Student(s) Tessa Rock			Grade 10 Town New London

New London Science and Technology Magnet HS Charles Mulligan

3106	LS	2	The Effect of Nitrate Enrichment on the Ability of Nannochloropsis sp. to Offset Ocean Acidification
Student(s) Chloe Sherman-Watson			Grade 11 Town New London

New London Science and Technology Magnet HS Charles Mulligan

3059	LS	2	The Effects of Shade Tolerance and Chlorophyll Density in Ulva sp. Cells
Student(s) Kristen Sinagra			Grade 10 Town New London

New London Science and Technology Magnet HS Charles Mulligan

6073	PS	3	Is Corking a Wood Bat a Real Advantage?
Student(s) Noah Smith			Grade 10 Town Pawcatuck

New London St. Joseph School Mrs. Karen Argarin

2028	L7	2	Stressed Out
Student(s) Megan Banach			Grade 7 Town Ledyard

New London St. Joseph School Mrs. Karen Argarin

2066	L7	2	How Does Being Watered With Different Liquids Effect A Plants Growth?
Student(s) Kyle Egan			Grade 7 Town New London

New London St. Joseph School Amanda Lakowsky

5548	P8	3	Mirrors Mirrors Reflecting On the Wall
Student(s) Victoria Hannaford			Grade 8 Town New London

New Milford New Milford High School Mr. Jones

6531	PST	3	The Everything Hanger
Student(s) Dallas Kelly			Grade 12 Town New Milford
Student(s) Alicia Lungo			Grade 12 Town New Milford
Student(s) Brett Leonard			Grade 12 Town New Milford

Conn. Science & Engineering Fair

Preliminary Judging Results

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

New Milford New Milford High School Brad Jones

6516	PST	3	EZ Bridge
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Student(s)	Andrew Raciti	Grade 12	Town New Milford
	Mark Chastain	Grade 12	Town New Milford
	Kellen Ness	Grade 12	Town New Milford

New Milford New Milford High School Bradford Jones

6503	PST	3	The Phone Throne
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Student(s)	Kurt Zarba	Grade 12	Town New Milford
	Cal Martin	Grade 12	Town New Milford
	Aiden Collentine	Grade 12	Town New Milford

Newington John Wallace Middle School Shirley Blustein

4017	PT	3	Leaf Chromatography
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Student(s)	Hannah Siegel	Grade 8	Town Newington
	Emilio Cruz	Grade 8	Town Newington
	Evan Lopes	Grade 8	Town Newington

Newington St. Mary School Zoe Mendal

5512	P8	3	Does Increasing Bass Frequencies on a Loudspeaker Also Increase Its Overall Output?
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Student(s)	Samuel Baker	Grade 8	Town New Britain
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Newington St. Mary School Ms. Zoe Mendal

2547	L8	2	Which type of allergy decongestant dissolves in stomach acid the fastest?
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Student(s)	Michelle Di Cicco	Grade 8	Town New Britain
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Newington St. Mary School Ms. Mendal

5033	P7	2	How Do Surfaces Affect the Speed of a Car?
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Student(s)	Patrick Smith	Grade 7	Town New Britain
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Newtown St. Rose of Lima School Mrs. Dimon

2026	L7	3	The effect of liquid medicine on plant growth
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Student(s)	Mackenzie Ciambra	Grade 7	Town Easton
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Newtown St. Rose of Lima School Marde Dimon

2006	L7	2	The effect of fertilizer quantity on algae growth.
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Student(s)	Torin Kearney	Grade 7	Town Newtown
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Newtown St. Rose of Lima School Mrs. Marde Dimon

5007	P7	2	THE EFFECT OF REFLECTIVE LIGHT ON SOLAR ENERGY PRODUCTION
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Student(s)	Peyton McKenzie	Grade 7	Town Newtown
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Newtown St. Rose of Lima School Mrs. Dimon

5534	P8	3	Construct and build a working turntable.
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Student(s)	Marianella Salinas	Grade 8	Town Newtown
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Newtown St. Rose of Lima School Mrs. Dimon

2013	L7	2	the effect of different fertilizers on grass
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Student(s)	Madelaine Simms	Grade 7	Town Newtown
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Conn. Science & Engineering Fair

Preliminary Judging Results

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

Newtown St. Rose of Lima School Mrs. Dimon

5001	P7	3	The Effect of Various Solutions on Shells
Student(s) Kathleen Tokar			Grade 7 Town Monroe

Newtown St. Rose of Lima School Mrs. Marde Dimon

2044	L7	3	Testing the Effects of Water Permeability in Locations with Different Soil Types
Student(s) Liam Wolson			Grade 7 Town Trumbull

North Haven North Haven Middle School Susan Jasinski

2033	L7	2	Developing a low-cost Green Algae Photobioreactor
Student(s) Luke Barrett			Grade 7 Town North Haven

North Haven North Haven Middle School Mrs. Jasinski

1031	LT	3	Are Biodegradable Kcups more Environmentally Secure than Normal Ones?
Student(s) Tyler Karasinski			Grade 8 Town North Haven
Stephen Borrelli			Grade 8 Town North Haven

North Haven North Haven Middle School Susan Jasinski

2022	L7	1	What is the perfect absorbent for used cooking oil?
Student(s) Soo Yeon Lee			Grade 7 Town North Haven

North Haven North Haven Middle School Susan Jasinski

5546	P8	2	Tremor Resistant Writing Tools: Calligraphy for the Disabled
Student(s) Isabella Morizio			Grade 8 Town North Haven

North Haven North Haven Middle School Mrs. McElrath

4020	PT	2	Desalinating Seawater for Various Survival Uses
Student(s) Sydney Rastkhane			Grade 8 Town North Haven
Gabrielle Weaver			Grade 8 Town North Haven
Tinisha Narain			Grade 7 Town North Haven

North Haven North Haven Middle School Susan Jasinski

4023	PT	1	How does the angle of a solar panel effect the electricity absorbed?
Student(s) Laekhram Singh			Grade 8 Town North Haven
Brijesh Vyas			Grade 8 Town North Haven

Norwalk Roton Middle School Mr. John Skopp

5539	P8	2	Snap!
Student(s) Cooper Grillo			Grade 8 Town Norwalk

Norwalk Roton Middle School Ms. Tom

2027	L7	3	Tap, Fizz, Vitamins
Student(s) Jane Hussey			Grade 7 Town Norwalk

Norwalk Roton Middle School Frank Yulo

2018	L7	2	Does the Color of Light Effect Plant Growth?
Student(s) Sarah Signore			Grade 7 Town Norwalk

Conn. Science & Engineering Fair

Preliminary Judging Results

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

Norwich Norwich Technical High School Dr. Jesse Morin

3525 LST 2 Effect of Fatty acid oxidation upregulators on a fruit fly model of human MTP deficiency.

Student(s) Brianna Dziekan **Grade** 10 **Town** Baltic
Athena Missios **Grade** 10 **Town** Uncasville
Gianpierre Roche **Grade** 10 **Town** Willimantic

Norwich Norwich Technical High School Mrs. Lisa Elliott

3104 LS 3 Stopping the stigma on obsessive compulsive disorder (OCD)

Student(s) Carley Fratoni **Grade** 12 **Town** Norwich

Norwich Norwich Technical High School Mrs. Lisa Elliott

3521 LST 1 Stomping the Stigma of Schizophrenia

Student(s) Lisa Garcia **Grade** 12 **Town** Norwich
Hannah Holloway **Grade** 12 **Town** Pawcatuck

Norwich Norwich Technical High School Mrs. Lisa Elliott

3083 LS 3 A Look Into Social Anxiety Disorder

Student(s) Monica Haight **Grade** 12 **Town** Plainfield

Norwich Norwich Technical High School Mrs. Lisa Elliott

3512 LST 2 Clarifying Bipolar Disorder and the Stigmas Pertaining to it

Student(s) Jeffrey Herbert **Grade** 12 **Town** Norwich
Mike Sanon **Grade** 12 **Town** Norwich

Norwich Norwich Technical High School Jesse Morin

3517 LST 1 The effect of probiotic yeast on a fruit fly model of human MTP deficiency

Student(s) Courtney Michaud **Grade** 10 **Town** Norwich
Jaeden Spitale **Grade** 10 **Town** Baltic
Kyle Tempesta **Grade** 10 **Town** Uncasville

Norwich Norwich Technical High School Mrs. Lisa Elliott

3001 LS 3 Stomping Out Stigmas Associated With Depression

Student(s) Alexandra Smith **Grade** 12 **Town** Norwich

Norwich Norwich Technical High School Mrs. Lisa Elliot

3515 LST 2 Post-Traumatic Stress Disorder

Student(s) Rebekah Smith **Grade** 12 **Town** Ledyard
Autumn Stimson **Grade** 12 **Town** Canterbury

Norwich Norwich Technical High School Jesse Morin

3503 LST 2 The effect of different chain length fatty acids on a Drosophila model of human MTP deficiency

Student(s) Kassidy Stackpole **Grade** 10 **Town** Montville
Travis Nordgren **Grade** 10 **Town** Griswold

Norwich Norwich Technical High School Dr. Jesse Morin

3529 LST 2 Effect of short chain fatty acid (SCFA) producing probiotic microorganisms on the phenotype of a D. melanogaster model of human MTP deficiency

Student(s) Ryan Stollman **Grade** 10 **Town** Colchester
Christopher Papotto **Grade** 10 **Town** Colchester

Conn. Science & Engineering Fair

Preliminary Judging Results

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

Orange Amity Reg Middle School, Orange Campus Mr. Dahn/Foley
 5554 P8 3 Which Material Melts Snow the Quickest
Student(s) Cooper Blanchette **Grade 8** **Town** Orange

Orange Amity Reg Middle School, Orange Campus Mr. Dahn/Foley
 5527 P8 2 Designing a Cost-Efficient Energy Solution Utilizing Solar and Wind Energy for Small Scale Use
Student(s) Shahood Khan **Grade 8** **Town** Orange

Orange Amity Reg Middle School, Orange Campus Foley / Dahn
 5563 P8 2 Green alternatives for pesticides
Student(s) Jody Liu **Grade 8** **Town** Orange

Orange Amity Reg Middle School, Orange Campus Thomas Foley/William Dahn
 5535 P8 2 Integrity of Structural Members Based on Shape
Student(s) Yohav Vinnikov **Grade 8** **Town** Orange

Orange Amity Reg Middle School, Orange Campus Mr. Foley/Dahn
 5504 P8 2 Non-Newtonian Fluid Headgear to Prevent or Reduce Concussions
Student(s) Henry Westgard **Grade 8** **Town** Orange

Orange Amity Reg Middle School, Orange Campus Mr. Dahn/ Foley
 4035 PT 2 A Salty Solution for Clean Energy
Student(s) Baasim Zafar **Grade 8** **Town** Orange
Raymond Lu **Grade 8** **Town** Orange

Oxford Great Oak Middle School Karla Minichiello
 2060 L7 3 The Plant Problem: What Liquid Helps Plants Grow the Tallest?
Student(s) Isabelle Lim **Grade 7** **Town** Oxford

Pawcatuck St. Michael School Michael DeNoia
 5003 P7 3 Temperature of Different Color Clothing
Student(s) Jaden Kutz **Grade 7** **Town** Stonington

Pawcatuck St. Michael School Mr Michael DeNoia
 2061 L7 2 Which Has A Greater Bacteria Activity: Refrigerated or Non-refrigerated Probiotics?
Student(s) Mary Malloy **Grade 7** **Town** Mystic

Pawcatuck St. Michael School Dr. DeNoia
 2016 L7 2 Family Finger
Student(s) Thomas McBride **Grade 7** **Town** Mystic

Pawcatuck St. Michael School Mr. DeNoia
 2501 L8 1 What is the most effective over the counter (OTC) antacid when it comes to neutralizing the pH level of stomach acid?
Student(s) Sean Peglow **Grade 8** **Town** Old Mystic

Plantsville J.F. Kennedy Middle School Mrs. Pepin
 4019 PT 2 Bridge Design
Student(s) Mischelle Beerbaum **Grade 8** **Town** Southington
Kiara Hourigan **Grade 8** **Town** Southington

Conn. Science & Engineering Fair

Preliminary Judging Results

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

Plantsville J.F. Kennedy Middle School Mrs. Pepin
2015 L7 3 How Will Vitamins Impact Plants?
Student(s) Pio Castellano **Grade 7** **Town** Plantsville

Plantsville J.F. Kennedy Middle School Mrs. Pepin
2546 L8 1 Seed Germination in Different Mediums
Student(s) Avery Cowen **Grade 8** **Town** Marion / Southington

Plantsville J.F. Kennedy Middle School Mrs. Pepin
2051 L7 3 Got Milk
Student(s) Margaret Coyle **Grade 7** **Town** Southington

Plantsville J.F. Kennedy Middle School Mrs. Pepin
5041 P7 3 The Filament Factor
Student(s) Walter Goodenough **Grade 7** **Town** Southington

Plantsville J.F. Kennedy Middle School Mrs. Pepin
1013 LT 3 Growing Algae
Student(s) Kailey Keegan **Grade 7** **Town** Plantsville
Dylan Sandow **Grade 7** **Town** Plantsville

Plantsville J.F. Kennedy Middle School Mrs. Pepin
2513 L8 2 Less is More: A test of minimal amount of water to grow a crop
Student(s) Matthew Maciejewski **Grade 8** **Town** Southington

Plantsville J.F. Kennedy Middle School Mrs. Pepin
2043 L7 2 Hydroponic vs Soil
Student(s) Madeleine Silano **Grade 7** **Town** Plantsville

Redding CT STEM FAIR Deborah Day
3093 LS 1 The Effect of Protective Material Type on Concussion Prevention
Student(s) Quinn Burke **Grade 10** **Town** Woodbridge

Redding CT STEM FAIR Ms. Deborah Day
6014 PS 2 Succession Variations in Kenyan Scavenger Communities and the Importance of Wildebeest Carcasses
Student(s) Katherine Handler **Grade 11** **Town** Woodbridge

Redding CT STEM FAIR Deborah Day
3115 LS 3 Identifying Quasi-Periodic Patterns in Functional MRI Data
Student(s) Haya Jarad **Grade 11** **Town** Orange

Redding CT STEM FAIR Deborah Day
6064 PS 2 Aggregation of Phospholipid Based Vesicle Using Triblock Polymer
Student(s) Ryan Oleynik **Grade 12** **Town** Woodbridge

Redding CT STEM FAIR Deborah Day
6078 PS 1 The Fabrication and Characterization of Carbon Nanotubes Using Different Transition Metal Nanoparticles
Student(s) Jacob Silliman **Grade 10** **Town** Woodbridge

Conn. Science & Engineering Fair

Preliminary Judging Results

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

Redding CT STEM FAIR Scott DeMeo
3071 LS 2 The Effect of Color on the Perception of Saltiness
Student(s) Neha Sudhir **Grade** 9 **Town** Woodbridge

Redding Joel Barlow High School Dr. Katherine Nuzzo
3103 LS 3 Chemo-responsive behavior of the Cancer Irroratus when exposed to carbon dioxide induced ocean acidification
Student(s) Libby Albanese **Grade** 11 **Town** Redding

Redding Joel Barlow High School Dr. Katherine Nuzzo
3046 LS 2 The Anomaly of Temperature and Relative Humidity on Ixodes scapularis Subsistence and the Incidence of Borrelia burgdorferi- Caused Maladies
Student(s) Gabrielle Colangelo **Grade** 11 **Town** Easton

Redding Joel Barlow High School Dr. Katherine Nuzzo
3113 LS 2 A Novel Approach for Detection of Early Onset of Chronic Kidney Disease (CKD) in the Rural Communities of Sri Lanka
Student(s) Sumudu Gunawardana **Grade** 10 **Town** Easton

Redding Joel Barlow High School Dr. Katherine Nuzzo
3037 LS 3 Expansion of the Agrilus Planipennis (Emerald Ash Borer) in Northwestern Connecticut Decreasing the Population of Fraxinus Americana (White Ash)
Student(s) Christopher Kaczegowicz **Grade** 11 **Town** Easton

Redding Joel Barlow High School Dr. Katherine Nuzzo
6509 PST 3 Corsair Transportation
Student(s) Rahul Kiefer **Grade** 10 **Town** Easton
Jake Stark **Grade** 11 **Town** Redding

Redding Joel Barlow High School Dr. Katherine Nuzzo
3077 LS 3 CO2 Concentration and Intensification of Gr22 Protein Expression in Anopheles Gambiae Mosquitoes
Student(s) Jessica Lam **Grade** 11 **Town** Easton

Redding Joel Barlow High School Dr. Katherine Nuzzo
3108 LS 2 A Novel Application of Biochar to Prevent Potential Evapotranspiration in Cotton Plants
Student(s) Christian Marini **Grade** 11 **Town** Redding

Redding Joel Barlow High School Dr. Katherine Nuzzo
6505 PST 2 A Novel Procedural Method for the Preparation of Photovoltaic Perovskite Solar Cells
Student(s) Maxwell Matejka **Grade** 11 **Town** Easton
Branden Fernandes **Grade** 11 **Town** Easton

Redding Joel Barlow High School Dr. Katherine Nuzzo
3090 LS 2 The Rate of Calcification of Crassostrea Virginica as Calcium Carbonate Levels are Increased
Student(s) Tatiana Naclerio **Grade** 11 **Town** Easton

Redding Joel Barlow High School Dr. Nuzzo
3062 LS 2 A Novel Comparison of Environmentally Friendly Organic Acids Against Expensive Toxic Herbicides on Raising the Soil pH to Eliminate Invasive Japanese barberry (Berberis thunbergii)
Student(s) Ben Ruffing **Grade** 11 **Town** Redding

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Preliminary Judging Results

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

Redding Joel Barlow High School Dr. Katherine Nuzzo
3014 LS 2 Soil Respiration and Project GRACE Groundwater Anomalies
Student(s) Katelyn Sun **Grade** 11 **Town** Redding

Redding Joel Barlow High School Dr. Katherine Nuzzo
3058 LS 3 Anomalies Between the Change in Temperature and the Growth of the Bacterium Erwinia Amylovora in the Macintosh Malus Pumila in the Northeast
Student(s) Tim Tamallanca **Grade** 11 **Town** Easton

Redding Joel Barlow High School Dr. Katherine Nuzzo
3520 LST 1 The Developmental Neuroscience of Rational Decision Making and Risk Taking in Childhood and Adolescence
Student(s) Kate Wegener **Grade** 10 **Town** Easton
Katherine Wright **Grade** 10 **Town** Redding

Redding Joel Barlow High School Dr. Katherine Nuzzo
3507 LST 3 A Novel Study on the Effect of Increased Temperature on Carbon Dioxide Fixation of Crassulacean Acid Metabolism Plants
Student(s) Ryan Weinstein **Grade** 11 **Town** Easton
Cristina Kontogiannis **Grade** 11 **Town** Redding

Redding Joel Barlow High School Dr. Katherine Nuzzo
6074 PS 2 Novel Use of Carbonic Anhydrase for Sequestration of Soil Respiration
Student(s) Grant Worthington **Grade** 11 **Town** Easton

Ridgefield Ridgefield High School Michael Yagid
3080 LS 3 Analyzing Vitiligo's Predisposing Factors with Genetic Programming
Student(s) John Diorio **Grade** 12 **Town** Ridgefield

Ridgefield Ridgefield High School Mr. Ryan Gleason
3109 LS 2 The Induction of Apoptosis in Leukemia and Lymphoma Cell Lines by Small Molecule Inhibitors through Inhibition of Antiapoptotic Proteins
Student(s) Jennifer Schwartz **Grade** 12 **Town** Ridgefield

Sandy Hook Newtown High School Timothy DeJulio
6062 PS 3 The Potential of Microbial Fuel Cells
Student(s) Nathan Augenbraun **Grade** 12 **Town** Sandy Hook

Sandy Hook Newtown High School Tim DeJulio
6033 PS 3 Exoskeleton Apparatus For Osteogenesis Imperfecta
Student(s) Chloe Kasak **Grade** 11 **Town** Sandy Hook

Sandy Hook Newtown High School Tim DeJulio
6007 PS 2 The Synthesis of Silica X-Aerogels Through the Subcritical Process
Student(s) William LeMay **Grade** 11 **Town** Newtown

Sandy Hook Newtown High School Tim DeJulio
6069 PS 3 Electronic Bumper Sticker for Consumer Use
Student(s) Christian Thanasoulis **Grade** 12 **Town** Newtown

Shelton Shelton High School Christine McNamara
6018 PS 2 Is Connecticut's Water Quality Connected to its River Bank
Student(s) Allison Brown **Grade** 12 **Town** Shelton

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

Shelton Shelton High School Ms. Festini
6059 PS 2 The Efficiency of Various Airfoil Designs in a Wind Tunnel
Student(s) Siddharth Jain **Grade** 9 **Town** Shelton

Shelton Shelton High School Pamela Petro
3511 LST 1 Clean the Seas: The Effects of Pollutants on Aquatic Life
Student(s) Courtney Litts **Grade** 10 **Town** Shelton
Lauren Pawlowski **Grade** 10 **Town** Shelton

Shelton Shelton High School Dr. Rivera
6032 PS 2 A Programmable LEGO Robot Used To Autonomously Analyze and Efficiently Solve A Rubik's Cube
Student(s) Joseph Niski **Grade** 12 **Town** Shelton

Shelton Shelton High School Dr. Tosca Rivera
3122 LS 2 Biodegradable Plastic Study to Prevent Oceanic Pollution
Student(s) Marissa Peck **Grade** 11 **Town** Shelton

Shelton Shelton High School Mrs. Dunham
3055 LS 3 The Effects of Sea Squirts on the Habitats of Native Species in Long Island Sound
Student(s) William Simics **Grade** 12 **Town** Shelton

Shelton Shelton High School Charles Fowler
6081 PS 1 How does pitch effect turbine efficiency
Student(s) Jacob Zuklie **Grade** 10 **Town** Shelton

Shelton Shelton Intermediate School Mrs. Genova
2042 L7 2 Garden Trouble
Student(s) Sarah Hurlbert **Grade** 7 **Town** Shelton

Shelton Shelton Intermediate School Mrs.Genova
1007 LT 3 Colorful vs Black and White Powerpoints
Student(s) Devan Wildman **Grade** 7 **Town** Shelton
Sydney Leifer **Grade** 7 **Town** Shelton

Shelton Shelton Intermediate School Ms Genova
2533 L8 3 Egg Substitutes in Baking
Student(s) Jessica Wurms **Grade** 8 **Town** Shelton

Shelton St. Joseph School Mr. Kieran Hyland
2521 L8 1 Re-Think What You Drink
Student(s) Emily Borges **Grade** 8 **Town** Shelton

Shelton St. Joseph School Mr. Kieran Hyland
2024 L7 1 The Stroop Effect
Student(s) Lauren Greenfield **Grade** 7 **Town** Shelton

Shelton St. Joseph School Mr. Kieran Hyland
2549 L8 2 Brain Games
Student(s) Jordan House **Grade** 8 **Town** Ansonia

Conn. Science & Engineering Fair

Preliminary Judging Results

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

Shelton St. Joseph School Mr. Kieran Hyland

5018 P7 3 The Effect of Bridge Design on Weight Bearing Capacity

Student(s) Adam Zaleski **Grade 7** **Town** Shelton

Simsbury Westminster School Mark DeKanter

3053 LS 1 The Intracellular Motility Factors of Listeria Monocytogenes as a Platform for Liposomal Drug Delivery in Cancer

Student(s) Teagan Stedman **Grade 10** **Town** Avon

Southington J.A. DePaolo Middle School Ms. Shea

2502 L8 3 Heavy Metal Adsorption Capability Of Pumice

Student(s) Betul Agirman **Grade 8** **Town** Southington

Southington J.A. DePaolo Middle School Ms. Ekegren

5515 P8 2 Can't Stand the Heat?

Student(s) Chris Chaplinsky **Grade 8** **Town** Southington

Southington J.A. DePaolo Middle School Mr. Garry

5522 P8 3 How Bridge Design Impacts Weight Bearing Capacity

Student(s) Bryce Fournier **Grade 8** **Town** Southington

Southington J.A. DePaolo Middle School Ms. Shea

5008 P7 1 Battle of the Loops

Student(s) Faith Kosior **Grade 7** **Town** Southington

Southington J.A. DePaolo Middle School Lindsay Ekegren

1018 LT 3 How Sweet Is It? Glucose Levels In Your Favorite Drinks

Student(s) Rebecca Nunn **Grade 8** **Town** Southington
Alexis Izzo **Grade 8** **Town** Southington

Southington J.A. DePaolo Middle School Ms. Shea

4034 PT 2 Are Southington Ponds Safe? Or not Safe?

Student(s) Brianna Pearson **Grade 7** **Town** Southington
Morgan Perschy **Grade 7** **Town** Southington

Southington J.A. DePaolo Middle School Ms. Shea

1021 LT 2 Burning Calories

Student(s) Nebeeka Saha **Grade 8** **Town** Southington
Brianna Harris **Grade 8** **Town** Southington

Southington J.A. DePaolo Middle School Lindsay Ekegren

5528 P8 3 Investigation of surface areas on Solar Panels

Student(s) Daniel Yu **Grade 8** **Town** Southington

Southington Southington Catholic School Mrs. Pauline Pelczar

5551 P8 3 Mirror Mirror
How does a Kaleidoscope Work?

Student(s) Kelsi Blatchley **Grade 8** **Town** Southington

Southington Southington Catholic School Pauline Pelczar

5560 P8 3 Rainbow Fire

Student(s) Emma Sage Kief **Grade 8** **Town** Plantsville

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Preliminary Judging Results

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

Stamford Beacon School John Henderson
6077 PS 2 Providing a Design Suggesting the Viability of IHTP Thrusters for Commercial Use
Student(s) Thomas Cortellesi **Grade** 11 **Town** Darien

Stamford Bi-Cultural Day School Chris Graseck
1026 LT 3 Effects That a Microwave Has On Brine Shrimp Egg Hatching
Student(s) Benjamin Marcus **Grade** 7 **Town** Westport
Gavi Genger **Grade** 7 **Town** New Canaan

Stamford Bi-Cultural Day School Mr. Chris Graseck
1001 LT 3 What is the most Efficient Amount of Fertilizer to use when Growing Mustard Seeds?
Student(s) Zev Pinker **Grade** 7 **Town** Stamford
Adin Fogel **Grade** 7 **Town** Stamford

Stamford Bi-Cultural Day School Chris Graseck
5034 P7 2 Do plants grow faster with sugar water?
Student(s) Lilah Steinberg **Grade** 7 **Town** Stamford

Stratford St. Mark School Stacy Xanthos
2053 L7 3 Caffeine and Plant Growth
Student(s) Jonathan Bushka **Grade** 7 **Town** Stratford

Stratford St. Mark School Ms. Xanthos
1004 LT 1 Music and Memory Does Music have a Positive Impact on Alzheimer's Patients
Student(s) Ashlinn Derleth **Grade** 8 **Town** Trumbull
Christina diBenedetto **Grade** 8 **Town** Stratford

Stratford St. Mark School Ms. Stacy Xanthos
2020 L7 2 Mud Power
Student(s) Liam Millott **Grade** 7 **Town** Milford

Stratford St. Mark School Agnes Miller
5565 P8 2 paws to consider
Student(s) Anna Nemergut **Grade** 8 **Town** Stratford

Stratford St. Mark School Mrs. Orendorf
1019 LT 1 Sugar Uncovered
Student(s) Natalie Sciallo **Grade** 8 **Town** Stratford
Kelly DeRosa **Grade** 8 **Town** Stratford

Suffield Suffield High School Mr. Charkiewicz
3026 LS 2 The Effects of Magnetic Fields on Plant Growth
Student(s) Katherine Baker **Grade** 11 **Town** Suffield

Suffield Suffield High School Mr. Charkiewicz
6082 PS 2 Studying the Applications of Solar Wind Pressure through Construction of a Muon Detection Chamber
Student(s) Lukas Baker **Grade** 12 **Town** Suffield

Suffield Suffield High School Mitch Charkiewicz
3024 LS 3 An Application To Efficiently Take Notes Reliably For Full Student Engagement in a Teacher's Lecture
Student(s) Madison D'Ostuni **Grade** 11 **Town** Suffield

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Preliminary Judging Results

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

Suffield Suffield High School Mitchell Charkiewicz
3064 LS 2 Measuring Reaction Times to Visual and Auditory Stimuli
Student(s) Caitlin Kirschbaum **Grade** 11 **Town** Suffield

Suffield Suffield High School Mr. Charkiewicz
6025 PS 3 FIAA: Food Ingredient Allergy Analyzer
Student(s) Zachariah Service **Grade** 10 **Town** Suffield

Suffield Suffield High School Mr. Charkiewicz
6013 PS 3 Magnetic Generator
Student(s) Thomas Taggart **Grade** 10 **Town** West Suffield

Suffield Suffield High School Mitchell Charkiewicz
3505 LST 3 How the Sediment From Water Help to Affect Crop Yield of Pea Plants
Student(s) Jason Werenski **Grade** 11 **Town** Suffield
Yash Mehta **Grade** 11 **Town** Suffield

Tolland Stonewall Academy Donald Peck
6085 PS 1 Designing an Airfoil Spinner to Improve the Efficiency of Horizontal Axis Wind Turbines
Student(s) Amelia Peck **Grade** 10 **Town** Tolland

Trumbull Christian Heritage School Daniel Cote
6001 PS 2 Efficient green energy: The design, fabrication and testing of a Helio-tracker sunflower style power generator for enhancing the efficiency of solar power generation
Student(s) Chengwen Hu **Grade** 11 **Town** Madison

Trumbull Christian Heritage School Modupe Oshin
2535 L8 3 The Effect of Baby Food on Sucrose, Glucose, and Fructose
Student(s) Hope Krekoska **Grade** 8 **Town** Trumbull

Trumbull Christian Heritage School Mrs. Oshin
5529 P8 3 Light Propagation
Student(s) Anda Liang **Grade** 8 **Town** Trumbull

Trumbull Christian Heritage School Daniel Cote
6056 PS 1 Object Detection for Autonomous Drone Navigation
Student(s) Hannah Shipman **Grade** 11 **Town** Trumbull

Trumbull Christian Heritage School Modupe Oshin
5537 P8 3 Which soda erodes tooth enamel faster?
Student(s) Emily Struzik **Grade** 8 **Town** Trumbull

Trumbull Christian Heritage School Mrs. Oshin
2525 L8 1 Will Seeds Be Affected by Space Exposure
Student(s) Benjamin Wolf **Grade** 8 **Town** New Haven

Trumbull Christian Heritage School Daniel Cote
6047 PS 2 Self-regulated LED Dimming System for Reduction of Eyestrain and Energy Consuming
Student(s) Xuezheng Wu **Grade** 11 **Town** Orange

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Preliminary Judging Results

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

Trumbull Christian Heritage School Dan Cote

6030 PS 2 Improving Developer Efficiency by Determining the Fastest Scripting Language to Compile and Run

Student(s) **Matthew Wyskiel**

Grade 11 Town Fairfield

Trumbull St. Joseph High School Dr. Walsh

3028 LS 2 The Affect of Bivalves on Environmental Systems

Student(s) **Abigail Cloud**

Grade 9 Town Bridgeport

Trumbull St. Joseph High School Patrick Pardee

6024 PS 2 Quantification of Pollutants Produced by Combustion of Synthetic Versus Fossil Fuels

Student(s) **Kara Cloud**

Grade 11 Town Bridgeport

Trumbull Trumbull High School Steffanie Elkins

3023 LS 1 Using Eco-friendly Acids to Accelerate the Decomposition of Polystyrene

Student(s) **Julie Hyland**

Grade 10 Town Trumbull

Trumbull Trumbull High School Steffanie Elkins

3057 LS 3 The affect different foods have on short and long term memory.

Student(s) **Miriam Marino**

Grade 10 Town Trumbull

Wallingford Choate Rosemary Hall Allison Nishitani

3025 LS 3 Orchids and Dandelions: Testing Differential Susceptibility in Children from Different Backgrounds

Student(s) **Shin Young Kwon**

Grade 11 Town Wallingford

Wallingford Choate Rosemary Hall Allison Nishitani

6072 PS 2 Preventing Traffic Fatalities With Ultraviolet and Ultrasonic Technology

Student(s) **Jonathan Wu**

Grade 9 Town Wilton

Waterford Waterford High School Mrs.Castleberry

3098 LS 2 Novel Methods for Healthier Deep Frying by Limiting Oxidation of Cooking Oils

Student(s) **Sophie Wang**

Grade 10 Town Waterford

Watertown The Taft School Alvin Reiff

3111 LS 1 Development of New Filter for MRI Image Quality Improvement

Student(s) **Joo Sung Yi**

Grade 10 Town Cresskill

West Hartford Solomon Schechter Day School Gilah Barker

2059 L7 3 Difference in Osmotic Properties of Brown compared to White Eggs.

Student(s) **Atara Harrari**

Grade 7 Town West Hartford

West Hartford St. Brigid School Penny Bostic

2007 L7 2 Plant Growth Using Different Kinds of Fluids

Student(s) **Keeshia Caguitlea**

Grade 7 Town West Hartford

West Hartford St. Timothy Middle School Mrs. Breen

2011 L7 1 Flour Power

Student(s) **Christopher Baldini**

Grade 7 Town West Hartford

West Hartford St. Timothy Middle School Christina Simao-Breen

2515 L8 1 Is Tap Water Safe to Drink in Connecticut?

Student(s) **Benjamin Lee**

Grade 8 Town Avon

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[SchTown] [School] [Teacher]
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West Hartford St. Timothy Middle School Mrs. Christina Simao-Breen

5550	P8	1	Sustainable Wireless Powered House
Student(s) Steven Liu			Grade 8 Town West Hartford

West Hartford St. Timothy Middle School Mrs, Breen

5566	P8	3	Fuel Up The Electrolyte Challeng
Student(s) Matthew Walker			Grade 8 Town West Hartford

Weston Weston Middle School David Rosvally

5020	P7	2	Natural Water Filters
Student(s) Jade Dayton			Grade 7 Town Weston

Westport Staples High School Karen Thompson

6016	PS	2	Finding the Optimal Conditions for Energy Recovery in an Electric Car
Student(s) Samuel Chinitz			Grade 12 Town Westport

Westport Staples High School Karen Thompson

6028	PS	2	Critical Parameters for Investigating Orbital Stability for the Kozai Mechanism
Student(s) Douglas Raigosa			Grade 12 Town Westport

Westport Staples High School Mrs. Thompson

3051	LS	3	What the Capturing and Recapturing of Limulus polyphemus Reveal about their Ecological Patterns of Spawning and Migration
Student(s) Paul Tricarico			Grade 12 Town Westport

Westport Staples High School Nick Morgan

6502	PST	1	Synthesis, Characterization, and Application of Noble Metal and Noble Metal Alloy Nanoparticles to Proton Exchange Membrane Fuel Cells for Enhanced Catalytic Activity
Student(s) Xiaotian Zhang			Grade 12 Town Westport
Student(s) Arun Soni			Grade 12 Town Westport

Wilton Middlebrook Middle School Paige Randall

2065	L7	1	Banana Peels: Second Life as a Water Purifier
Student(s) Anika Bhagavatula			Grade 7 Town Wilton

Wilton Middlebrook Middle School Paige Randall

5023	P7	1	Building a Battery
Student(s) Nina Ferrucci			Grade 7 Town Wilton

Wilton Middlebrook Middle School C. Festa.

2512	L8	1	Plants to Cool the Planet.
Student(s) Megha Gupta			Grade 8 Town WILTON

Wilton Middlebrook Middle School Mrs.Jessica Garcia

5556	P8	2	Building Fire-Resistant Homes
Student(s) Vignesh Subramanian			Grade 8 Town Wilton

Windsor Academy of Aerospace and Engineering Dr. Lili Aramli

3067	LS	2	Improvements in Chemotherapy: The Implementation of HSP90 Inhibitors in the Suppression of Chemoresistance
Student(s) Leon Novak			Grade 12 Town Rocky Hill

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

Windsor Academy of Aerospace and Engineering Dr. Lili Aramli
 3042 LS 2 An Electronic Neural Model of the Patellar Reflex Arc
Student(s) Joshua Snyder **Grade** 11 **Town** Ivoryton

Windsor Academy of Aerospace and Engineering Dr. Lili Aramli
 3124 LS 3 Effects of Varied Concentrations of Propolis and Saccharin on the Development of Zebrafish Embryos
Student(s) Derin Yetil **Grade** 11 **Town** Newington

Windsor Greater Hartford Academy of Math & Science Dr. Lili Aramli
 3102 LS 2 Effects of Cinnamon Powder and Oil on Escherichia Coli
Student(s) Jack Breton **Grade** 11 **Town** Wethersfield

Windsor Greater Hartford Academy of Math & Science Dr. Lili Aramli
 3519 LST 3 The Effects of Taraxacum on Mouse Lung Cancer Cells
Student(s) Nickolina Doran **Grade** 11 **Town** Southington
 Jacqueline Klepinger **Grade** 12 **Town** Wethersfield

Windsor Greater Hartford Academy of Math & Science Dr. Lili Aramli
 3504 LST 3 The Effects of Home Remedies on Staphylococcus aureus
Student(s) Kajal Shah **Grade** 11 **Town** Rocky Hill
 Amber Rehman **Grade** 11 **Town** Rocky Hill

Windsor Greater Hartford Academy of Math & Science Dr. Aramli
 3116 LS 3 The Effect of Prevalent Environmental Pollutants on the Regeneration Rate of N.vectensis
Student(s) Bryan Tassavor **Grade** 12 **Town** Rocky Hill

Windsor Madina Academy Muhammad Abubakar
 4028 PT 2 Investigating novel methods of generating electricity by using a Fibonacci wind-turbine with piezoelectric generators versus a regular wind-turbine with piezoelectric-generators
Student(s) Ibrahim Moghul **Grade** 8 **Town** Bloomfield
 Yaman Zoghol **Grade** 7 **Town** Enfield
 Ahmad Mohammed **Grade** 7 **Town** Windsor

Windsor Madina Academy Muhammad Abubakar
 6510 PST 3 Designing and Constructing an Underwater Turbine with a Self-Functioning Water Desalination System Simulating the Conditions of the Long Island Sound
Student(s) Maryam Moghul **Grade** 9 **Town** Bloomfield
 Alina Mohammed **Grade** 9 **Town** Windsor

Windsor Madina Academy Muhammad Abubakar
 2508 L8 2 The effect of Vitamin C, Calcium, and Magnesium on Raphinus Sativa.
Student(s) Ayesha Nazir **Grade** 8 **Town** Manchester

Windsor Madina Academy Muhammad Abu Bakar
 1027 LT 2 A Comparison between Hydroponically Grown and Soil Grown Lactuca Sativa with and without Added Nutrients
Student(s) Ruqayyah Paine **Grade** 8 **Town** Terryville
 Rifa Hossain **Grade** 8 **Town** Manchester

Windsor St. Gabriel School Ms. Rosa
 5030 P7 2 Propensity of Density
Student(s) Jessica Akin **Grade** 7 **Town** Windsor

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

Windsor St. Gabriel School Margaret Rosa
 4010 PT 1 The Thermolectric Trivet: A Device For Converting Waste Heat From Cooking Into DC Current
Student(s) Benjamin Clark **Grade 8** **Town** Windsor
 Alma Clark **Grade 8** **Town** Windsor

Windsor St. Gabriel School Ms. M. Rosa
 2025 L7 2 The Effect of Different Substances on Plant Growth
Student(s) Paul Hijeck **Grade 7** **Town** Windsor Locks

Windsor St. Gabriel School Mrs. Rosa
 4021 PT 1 What shapes your Chute?
Student(s) Kennedy Tor **Grade 8** **Town** Windsor
 Sean Glick **Grade 8** **Town** Windsor

Windsor The Loomis Chaffee School Koby Osei-Mensah
 3097 LS 2 investigating the cardiac effect of toxicity by microwaved plastic products using Daphnia magna.
Student(s) HyunWoo Lew **Grade 11** **Town** Windsor

Woodbridge Amity Regional High School Deborah Day
 6071 PS 2 Probing Cognitive Abnormalities in Causal Reasoning in OCD
Student(s) Jimmy Bi **Grade 11** **Town** Woodbridge

Woodbridge Amity Regional High School Deborah Day
 3041 LS 3 Murine Antibody Responses to the Relapsing Fever Spirochete Borrelia miyamotoi
Student(s) Emily Criscuolo **Grade 11** **Town** Woodbridge

Woodbridge Amity Regional High School Deborah Day
 6040 PS 3 How Has the Safety of Fuel Tanks Increased? The Billion Dollar Question
Student(s) Howard Ding **Grade 10** **Town** Woodbridge

Woodbridge Amity Regional High School Deborah Day
 3003 LS 2 Polymorphism in Mertk associated with Multiple Sclerosis
Student(s) Agrani Dixit **Grade 10** **Town** Woodbridge

Woodbridge Amity Regional High School Deborah Day
 3020 LS 2 Protein Markers on Peripheral Blood Mononuclear Cells of Non-Smokers, Current Smokers, and Former Smokers
Student(s) Ulada Dubovik **Grade 10** **Town** Orange

Woodbridge Amity Regional High School Deborah Day
 6514 PST 2 Incorporating Biomimicry into Airfoil Design
Student(s) Courtney Greifenberger **Grade 10** **Town** Orange
 Kelsey McCormack **Grade 11** **Town** Orange

Woodbridge Amity Regional High School Deborah Day
 3112 LS 2 The Correlation of the Development of Children's Phonological Awareness, Intelligence Quotient, and Reading Cognition
Student(s) James He **Grade 11** **Town** Woodbridge

Woodbridge Amity Regional High School Ms. Deborah Day
 3076 LS 3 Mapping the Relationship Between Reading Ability and Successfully Learning an Artificial Lexicon
Student(s) Ananya Kachru **Grade 10** **Town** Woodbridge

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

Woodbridge Amity Regional High School Deborah Day

3506	LST	2	The Effect of Oniscus asellus Activity and Associated Decomposition on Soil Composition and Plant Growth
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Student(s)	Haseeb Khan	Grade 12	Town Orange
	Barak Davidi	Grade 12	Town Woodbridge

Woodbridge Amity Regional High School Deborah Day

6501	PST	3	Creating a Mobile School Navigation App
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Student(s)	Vince Li	Grade 10	Town Orange
	David Wang	Grade 12	Town Bethany

Woodbridge Amity Regional High School Deborah Day

3066	LS	1	Developing a Novel Progranulin-Derived Biologic for Gaucher disease
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Student(s)	Helen Liu	Grade 12	Town Orange
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Woodbridge Amity Regional High School Ms. Deborah Day

6080	PS	2	The Effect of Air Pressure on the Distance of a Soccer Kick
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Student(s)	Henry Molot	Grade 10	Town Woodbridge
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Woodbridge Amity Regional High School Deborah Day

3118	LS	1	GABA Responses in Adult MCH Neurons
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Student(s)	Rohan Patel	Grade 11	Town Orange
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Woodbridge Amity Regional High School Ms. Deborah Day

6521	PST	1	Designing a Ventricular Assist Device Using Ferrofluids and Electromagnets as an Actuating Mechanism
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Student(s)	Sarah Saxe	Grade 11	Town Woodbridge
	Julia Nadelmann	Grade 11	Town Woodbridge

Woodbridge Amity Regional High School Deborah Day

3121	LS	3	The Effect of Nicotine Concentration on Endothelial Cell Proliferation
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Student(s)	Kevin Yanagisawa	Grade 10	Town Woodbridge
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Woodbridge Amity Regional High School Deborah Day

3514	LST	2	Integration of Auditory and Visual Features of Speech Perception in Schizophrenia: A Neurophysiological Investigation of the McGurk Effect
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Student(s)	Yiran Zhang	Grade 12	Town Orange
	Eli Silvert	Grade 12	Town Woodbridge

Woodbridge Amity Regional High School Deborah Day

3510	LST	2	The Effect of Multilingualism on Attentional Control Measured with Time Perception
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Student(s)	Yuqi Zhou	Grade 10	Town Woodbridge
	Sebin Park	Grade 10	Town Woodbridge