



Connecticut Science & Engineering Fair

Quinnipiac University

March 12 - 17, 2018

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]			
Avon	Avon High School	Mrs. Andrea Galuska	3536	LST	2	MyMedWallet: Personalized Medical Organizer App	Student(s)	Jaya Hari	Grade 10 Town Avon
								Dheepa Hari	Grade 10 Town Avon
Avon	Talcott Mountain Academy	Mr. Meredith	5030	P7	3	Black Holes - The Insatiable Hunger	Student(s)	Alexandros Cooke-Politikos	Grade 7 Town Avon
Avon	Talcott Mountain Academy	John Lombardo	5542	P8	3	Acoustic Anomaly Detector	Student(s)	Brendan Glastris	Grade 8 Town Burlington
Avon	Talcott Mountain Academy	Dr. Brigette Zacharczenko	2505	L8	2	Development of rapid test for Lyme bacteria in ticks	Student(s)	Julian Kage	Grade 8 Town Glastonbury
Avon	Talcott Mountain Academy	Lydia Gibb	2516	L8	2	Got Your Back	Student(s)	Emma Ruccio	Grade 8 Town Southington
Avon	Talcott Mountain Academy	Mr Lombardo	5538	P8	3	MediTrack	Student(s)	Ari Starr	Grade 8 Town Avon
Baltic	Sayles School	Miss Roy	4018	PT	1	Black Light Experiment	Student(s)	Brendan Bezanson	Grade 7 Town Sprague
								Hunter Bittman	Grade 7 Town Sprague
Baltic	Sayles School	Miss Roy	1002	LT	2	Caffeine's Effect On Plant Growth	Student(s)	Abigail Staggs	Grade 8 Town Baltic
								Ashlyn Bill	Grade 8 Town Baltic
Baltic	Sayles School	Chelsea Roy	5559	P8	3	Can You Blame the Burnt Cookies on the Pan?	Student(s)	Emily Topalis	Grade 8 Town Baltic
Bethany	Amity Reg Middle School - Bethany Campus	Kevin Berean	5546	P8	1	The Portable Linux Terminal	Student(s)	Sandra Correya	Grade 8 Town Bethany
Bethany	Amity Reg Middle School - Bethany Campus	Kevin Berean	5534	P8	3	The Rolling Cane	Student(s)	Michael Coyne	Grade 8 Town Woodbridge

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Bethany Amity Reg Middle School - Bethany Campus Kevin Berean
5548 P8 3 LightOff
Student(s) Adam Florkiewicz **Grade 8** **Town** Bethany

Bethany Amity Reg Middle School - Bethany Campus Kevin Berean
4015 PT 1 Preventing SIDS From Suffocation
Student(s) Ellina Medovnikov **Grade 8** **Town** Woodbridge
Audrey Marin **Grade 8** **Town** Woodbridge

Bethany Amity Reg Middle School - Bethany Campus Kevin Berean
5550 P8 1 Manual Tightening Prosthetic Hand
Student(s) Sage Paglia **Grade 8** **Town** Woodbridge

Bethany Amity Reg Middle School - Bethany Campus Kevin Berean
5524 P8 3 3D Printed Shoes for Comfort, Support & Performance
Student(s) Parker Paragas **Grade 8** **Town** Woodbridge

Bethany Amity Reg Middle School - Bethany Campus Kevin Berean
5556 P8 1 3D Printed Dog Prosthetic
Student(s) Karli Scianna **Grade 8** **Town** Woodbridge

Bethany Amity Reg Middle School - Bethany Campus Kevin Berean
5528 P8 2 Mini Generator
Student(s) Harry Wyndorf **Grade 8** **Town** Woodbridge

Bethel Bethel High School Mr. Turek
3046 LS 2 Deca-Pods
Student(s) Connor Brescia **Grade 12** **Town** Bethel

Bethel Bethel High School Mr. Turek
6049 PS 3 Lowering SLS Costs with Preexisting Solid Rocket Boosters
Student(s) Ryan Lemone **Grade 10** **Town** Bethel

Bethel St. Mary School Mrs. McDonald
2030 L7 3 Hot and Hard Headband
Student(s) Anna Kopec **Grade 7** **Town** Bethel

Bethel St. Mary School Kate McDonald
5025 P7 2 Reusable Hand Warmer Magic
Student(s) Kayla O'Marra **Grade 7** **Town** Bethel

Bethel St. Mary School Kate McDonald
5504 P8 3 Building an app
Student(s) Steven Reese **Grade 8** **Town** Newtown

Bethel St. Mary School Kate McDonald
2506 L8 3 New Creature in the Sea.
Student(s) Magdalena Swierczek **Grade 8** **Town** Danbury

Bethel St. Mary School Kate McDonald
2526 L8 3 "Wifi - Harmless or Harmful"
Student(s) Oona Tuccinardi **Grade 8** **Town** Bethel

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Bethel St. Mary School Kate McDonald
2513 L8 2 The Effect of Digestion on Sugary Drinks
Student(s) **Caroline Tucker** **Grade 8** **Town** Danbury

Bozrah Fields Memorial School Mrs. E. Brown
5027 P7 1 How Do Variables Impact The Amount of Energy Collected by a Wind Turbine
Student(s) **Alanna Brady** **Grade 7** **Town** Bozrah

Bozrah Fields Memorial School Mrs. E. Brown
5541 P8 3 Water Temperature and Hurricane Prevention
Student(s) **Elijah Ramthun** **Grade 8** **Town** Bozrah

Bozrah Fields Memorial School Mrs. E. Brown
5535 P8 2 Using Robotics for Investigating Underwater Habitats
Student(s) **Morgan Tainter** **Grade 8** **Town** Gilman

Bozrah Fields Memorial School Mrs. E. Brown
2024 L7 2 Do different species of tree's growth patterns vary when looking at their growth rings?
Student(s) **Norah Tracy** **Grade 7** **Town** Bozrah

Bridgeport Bassick High School Eley Varghese
3537 LST 3 Human Brain - Testing Musical Notes
Student(s) **Topacio Reyes** **Grade 9** **Town** Bridgeport
Itzel Sanchez **Grade 9** **Town** Bridgeport

Bridgeport Blackham School Patricia Wrenn
4022 PT 2 Brilliant Bulbs
Student(s) **Jaden Jones** **Grade 8** **Town** Bridgeport
Michael Molina **Grade 8** **Town** Bridgeport

Bridgeport Blackham School Patricia Wrenn
1007 LT 2 Strawberries and DNA
Student(s) **Daniel Tarazona** **Grade 7** **Town** Bridgeport
Normiana Manzano **Grade 7** **Town** Bridgeport

Bridgeport Bridgeport Military Academy Mr. Arun Kadam
3010 LS 2 Teen Generations:Stress Levels and Its Sources
Student(s) **Dafne Hernandez** **Grade 10** **Town** Bridgeport

Bridgeport Bridgeport Regional Aquaculture Center Kirk Shadle
3051 LS 2 Regulation of Lemna minor Reactive Oxygen Species through Iodide and Tyrosine Antioxidant Treatments to Maximize Biofuel Yield
Student(s) **Alia Aguilar** **Grade 12** **Town** Monroe

Bridgeport Bridgeport Regional Aquaculture Center Kirk Shadle
3036 LS 2 Development of a Mucin Based Biomedical Adhesive Gel
Student(s) **Brian Duffy** **Grade 12** **Town** Fairfield

Bridgeport Bridgeport Regional Aquaculture Center Kirk Shadle
6004 PS 2 Investigation of Recycled Concrete Aggregate as a low-cost CO2 sequestration vehicle through Indirect Mineral Carbonation
Student(s) **Jinkuk Hong** **Grade 12** **Town** Shelton

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Bridgeport Bridgeport Regional Aquaculture Center Kirk Shadle
6023 PS 1 Development of a Portable, Kinetic Driven, Ozone Based Water Purification System for Application in Disaster Relief

Student(s) Jamielyn Iquina **Grade** 12 **Town** Stratford

Bridgeport Bridgeport Regional Aquaculture Center Kirk Shadle
6055 PS 2 Inhibiting the Formation of Methane Hydrates using Zeolite Minerals and Hydrophilic Polymers in Natural Gas Pipelines.

Student(s) Danny Jagoe **Grade** 12 **Town** Fairfield

Bridgeport Bridgeport Regional Aquaculture Center Kirk Shadle
6068 PS 3 The Utilization of Light Amplification by Stimulated Emission of Radiation in Amalgamating Free-Space Optical Communication and Wireless Power Transmission

Student(s) Julia LaPenna **Grade** 12 **Town** Milford

Bridgeport Bridgeport Regional Aquaculture Center Kirk Shadle
3047 LS 3 Development of a Migration Model For Morone saxatilis Based on Thermal Shifts in Long Island Sound

Student(s) Clayton McGoldrick **Grade** 12 **Town** Southport

Bridgeport Bridgeport Regional Aquaculture Center Kirk Shadle
6021 PS 2 Synthesizing a Flexible, Conductive, and Biodegradable Polymer Matrix, Composed of Graphene and Chitin.

Student(s) William Mergenthaler **Grade** 12 **Town** Southport

Bridgeport Bridgeport Regional Aquaculture Center Kirk Shadle
3031 LS 1 Amplifying Heat Shock Protein Expression in Glycine max for cross protection against substandard growing conditions.

Student(s) Evan O'Keefe **Grade** 12 **Town** Fairfield

Bridgeport Bridgeport Regional Aquaculture Center Kirk Shadle
6074 PS 2 A Novel Heavy Metal Remediation Technique Utilizing a Photocatalyst Driven Graphene-Cupric Oxide Matrix

Student(s) Catherine Odendahl **Grade** 12 **Town** Trumbull

Bridgeport Bridgeport Regional Aquaculture Center Kirk Shadle
6030 PS 2 The Analysis of a Biochar Containment Boom as a Mitigation Technique for Relic Pollutants after Marine Dredging

Student(s) Ethan Skuches **Grade** 12 **Town** Milford

Bridgeport Central High School Robert Pascarell
3054 LS 3 Are plants underrated heroes?

Student(s) Alayjah Evans **Grade** 10 **Town** Bridgeport

Bridgeport Central High School Leeford Dufe
6092 PS 2 Salty Fuel Energy

Student(s) Carlos Guzman **Grade** 9 **Town** Bridgeport

Bridgeport Central High School Mrs. Dritschler
6072 PS 3 Solar Travels

Student(s) Omed Hossaini **Grade** 9 **Town** Bridgeport

Bridgeport Classical Studies Magnet Academy Mr. Feeney
2501 L8 2 Will H2O Win?!

Student(s) Yaelis Perez **Grade** 8 **Town** Bridgeport

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Bridgeport Fairchild Wheeler Magnet High School Ms.Veillette

3532 LST 2 The Effects of Mental Stress on Physical Health

Student(s) Alex Aquino **Grade** 11 **Town** Bridgeport
Erin McMurray **Grade** 11 **Town** Fairfield

Bridgeport Fairchild Wheeler Magnet High School Keli Veillette

3009 LS 2 Comparing Biofilm Formation on Naturally Occurring Antimicrobial Nanostructures from Squalus acanthias, Cicadidae sp., and Nelumbo nucifera

Student(s) Mariam Dobosz **Grade** 12 **Town** Shelton

Bridgeport Fairchild Wheeler Magnet High School Keli Veillette

6038 PS 3 Amount of Chlorine in Water, Compared to the Resulting Chloramine

Student(s) Mansi Kabre **Grade** 9 **Town** Trumbull

Bridgeport Fairchild Wheeler Magnet High School Miss Veillette

3078 LS 3 How do emotions effect your blood glucose?

Student(s) Valerie Navas **Grade** 11 **Town** Stratford

Bridgeport Fairchild Wheeler Magnet High School Mr. Koekkoek

6514 PST 2 Bartholomew's Vest

Student(s) Luca Pietrangeli **Grade** 12 **Town** Trumbull
Angus Foden **Grade** 12 **Town** Trumbull

Bridgeport Fairchild Wheeler Magnet High School Paul Bergquist

6026 PS 3 Extinguishing fire with sound

Student(s) Kenny Pineda **Grade** 10 **Town** Bridgeport

Bridgeport Fairchild Wheeler Magnet High School Mrs. Veillette

6527 PST 2 Alkalosis and Acidosis: How Dieting Affects Abnormal pH Levels in the Human Body

Student(s) Citlalli Tomas **Grade** 11 **Town** Bridgeport
Musau Kalala **Grade** 11 **Town** Bridgeport

Bridgeport Fairchild Wheeler Magnet High School Keli Veillette

3506 LST 3 The Effects of Peppermint on Reaction Time and Performance

Student(s) Emma Turchuk **Grade** 11 **Town** Shelton
Fidel Gomez **Grade** 11 **Town** Bridgeport

Bridgeport Fairchild Wheeler Magnet High School Keli Veillette

3102 LS 2 Echinacea's Effect on Stress Induced Immunodeficiency in Crickets

Student(s) Olivia Wallon **Grade** 12 **Town** Shelton

Bridgeport Fairchild Wheeler Magnet High School Keli Veillette

6507 PST 3 Inductive Power Line

Student(s) David Williams **Grade** 12 **Town** Bridgeport
Cynthia Demora **Grade** 12 **Town** Bridgeport

Bridgeport Geraldine Claytor Magnet Academy Logan Whitley

4026 PT 1 How does the type of cup affect how long the coffee will stay hot?

Student(s) Iris Rivera **Grade** 7 **Town** Bridgeport
Clementine Gnoto **Grade** 7 **Town** Bridgeport
Ahkiriah Johnson **Grade** 7 **Town** Bridgeport

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Bridgeport John Winthrop School Gregory Walsh
2524 L8 3 Gases and Beverages
Student(s) **Isabelle Seara** Grade 8 Town Bridgeport

Bridgeport John Winthrop School Susan Beres
2027 L7 2 How does Water Salinity Affect a Scallion's Growth
Student(s) **Richard Zou** Grade 7 Town Bridgeport

Bridgeport Multicultural Magnet School Corina Ciuflea
2532 L8 2 An Invisible Enemy That Kills
Student(s) **John Paul Atehortua** Grade 8 Town Bridgeport

Bridgeport Multicultural Magnet School Corina Ciuflea
2031 L7 1 To grow or not to grow
Student(s) **Savannah Guzman** Grade 7 Town Bridgeport

Bridgeport Park City Magnet School Ms. Daria Collins
5552 P8 2 Wat(H)er Spin if Off
Student(s) **Thu Do** Grade 8 Town Bridgeport

Bridgeport Park City Prep Charter School Vasiliki Boudreau
2511 L8 2 Organisms in an Ecosystem
Student(s) **April Almeida** Grade 8 Town Bridgeport

Bridgeport Park City Prep Charter School Mrs.Boudreau
5015 P7 3 The importance of ammonia in the formation of salt crystals
Student(s) **Nathys Barros** Grade 7 Town Bridgeport

Bridgeport Park City Prep Charter School Jonathan Jaekle
1012 LT 2 The Effects of Ocean Pollutants on Marine Organisms
Student(s) **Jenifer Bonilla** Grade 8 Town Bridgeport
Elysia Couvertier Grade 8 Town Bridgeport

Bridgeport Park City Prep Charter School Jonathan Jaekle
2011 L7 2 Can Plants Grow In Different Liquids?
Student(s) **David Boudreau Jr** Grade 7 Town Ansonia

Bridgeport Park City Prep Charter School Mrs. boureau
2002 L7 3 Does Practice Make Perfect?
Student(s) **Emily Colon** Grade 7 Town Bridgeport

Bridgeport Park City Prep Charter School Vasiliki Boudreau
5557 P8 3 The Novel Method Of Oil Spill clean up using biomasses
Student(s) **Alyssa Hall** Grade 8 Town Bridgeport

Bridgeport Park City Prep Charter School Vicky Boudreau
2515 L8 3 Germs germ everywhere
Student(s) **sanaa hatton** Grade 8 Town Bridgeport

bridgeport Park City Prep Charter School Mrs.Boudreau
2028 L7 3 The Force To Seperate
Student(s) **Jeremiah Hernandez** Grade 7 Town Bridgeport

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Bridgeport Park City Prep Charter School Mrs. Boudreau

1003 LT 3 5 Second Rule?

Student(s) Dianna Ismail **Grade 7** **Town** Bridgeport

Imrath Saboor **Grade 7** **Town** Bridgeport

Bridgeport Park City Prep Charter School Mr. Jaekle

2536 L8 3 Seed Germination With Different Liquid

Student(s) Isabelle Patrick-Oliveira **Grade 8** **Town** Bridgeport

Bridgeport Roosevelt School ms simon

4002 PT 3 magnetic top leitation

Student(s) Moez Khawaja **Grade 7** **Town** Bridgeport

Jordan Boothe **Grade 7** **Town** Bridgeport

Troy Holtzer **Grade 7** **Town** bridgeport

Canton Canton High School Stephen Riley

6080 PS 2 Are Your Running Shoes Slowing You Down?

Student(s) Jane Frawley **Grade 12** **Town** Canton

Canton Canton High School Stephen Riley

6073 PS 2 Creating, Optimizing, and Testing a Mathematical Model of the Chemical Production of Biodiesel.

Student(s) Cole Marcuccio **Grade 12** **Town** Canton

Canton Canton High School Mr. Riley

6076 PS 3 Optimizing Hydraulics

Student(s) Aidan O'Donnell **Grade 12** **Town** Canton

Cheshire St. Bridget School Michelle Carroll

5033 P7 2 Staining Effects of Five Popular Beverages Using Eggshells to Represent Teeth

Student(s) Juliana Janezic **Grade 7** **Town** Southington

Cheshire St. Bridget School Mrs. Carroll

2537 L8 1 Transforming Trash Into Treasure: A Sustainable Approach To Oil Spill Cleanup

Student(s) Kavin Kathir **Grade 8** **Town** Cheshire

Danbury Danbury High School Binu Jacob

6088 PS 3 Crystal Woods

Student(s) Aleena Jacob **Grade 9** **Town** Danbury

Danbury Danbury High School Mr. LaRosa

6016 PS 2 Harvesting Wind From Urban Street Canyons Using a Double Helix Wind Turbine

Student(s) Jeffrey Osborne **Grade 10** **Town** Danbury

Danbury Immaculate High School Mrs. Bridget Henry

6008 PS 2 Effective Catalytic Conversion of Plastic Waste into Fuel

Student(s) Elias Haddad **Grade 9** **Town** Danbury

Danbury St. Gregory the Great School Christine Fahey

5034 P7 1 The Efficiency of Different Types of Algae in Creating Self-Sustaining Microbial Fuel Cells

Student(s) Max Coisman **Grade 7** **Town** Danbury

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Danbury St. Gregory the Great School Christine Fahey
5007 P7 2 What Materials In Homes Can Block Wi-Fi Signals?
Student(s) **Aiden Doolabh** Grade 7 Town Danbury

Danbury St. Gregory the Great School Christine Fahey
4004 PT 1 "Perpetual Motion" Or "Perpetual Failure"
Student(s) **Thomas Fanelli** Grade 7 Town Danbury
Daniel Goetz Grade 7 Town Danbury

Danbury St. Gregory the Great School Christine Fahey
4025 PT 1 Wind vs Water
Student(s) **Anna Flaherty** Grade 8 Town New Fairfield
Arshei Flores Grade 8 Town New Milford

Danbury St. Gregory the Great School Christine Fahey
1013 LT 1 Now you "C" it, now you don't
Student(s) **Mary Grace Fontana** Grade 7 Town Danbury
Sarina Steinerd Grade 7 Town Danbury

Danbury St. Gregory the Great School Christine Fahey
5526 P8 3 Wifi? Why not?
Student(s) **Jennifer Hanley** Grade 8 Town Danbury

Danbury St. Gregory the Great School Christine Fahey
4020 PT 3 Overpowering Radiation
Student(s) **William Murphy** Grade 8 Town Danbury
Joseph Falcao Grade 8 Town Danbury

Danbury St. Gregory the Great School Christine Fahey
2514 L8 1 Bloom of Doom
Student(s) **Melanie Seaman** Grade 8 Town New Fairfield

Danbury St. Joseph School Jennifer Reilly
2021 L7 2 Color or Black and White? Which Evokes More Emotion
Student(s) **Emily Cruz** Grade 7 Town Danbury

Danbury St. Joseph School Mrs. Reilly
2529 L8 3 The Effects of Microwave Rays on Plants and Yeast
Student(s) **William Doran** Grade 8 Town Danbury

Danbury St. Joseph School Mrs. Reilly
5525 P8 3 Temperature and Magnets
Student(s) **Aidan Gage** Grade 8 Town Danbury

Danbury St. Joseph School Mrs. Reilly
2512 L8 2 Stunted Growth: How Do Cell phones Affect Plant Growth and Can Certain Materials Prevent It?
Student(s) **Bronwyn Hyland** Grade 8 Town New Fairfield

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Danbury St. Joseph School Jennifer Reilly
1001 LT 1 Growing, Growing, Gone! A Fertilizer Experiment

Student(s) Christian Jeffers **Grade 7** **Town** Danbury
Georen Chirayil **Grade 7** **Town** Danbury

Danbury St. Joseph School Mrs. Jennifer Reilly
2531 L8 2 The Effects of X-ray Radiation on the Germination and Growth of Radish Plants.

Student(s) Conor O'Keefe **Grade 8** **Town** Danbury

Danbury St. Joseph School Jennifer Reilly
1014 LT 1 Water you drinking?

Student(s) Talia Pereira **Grade 7** **Town** Brookfield
Sadie Jarboe **Grade 7** **Town** Danbury

Danbury Westside Middle School Academy Jonathan Neuhausel
5523 P8 1 Effect of Spiral Spacing on Conversion Efficiency of Horizontal Axis Spiral Wind Turbine

Student(s) Timothy Chen **Grade 8** **Town** Danbury

Danbury Westside Middle School Academy Jonathon Neuhausel
5527 P8 1 Stormwater Pollution: The Effectiveness of Zeolites in Decreasing Levels of Nitrate in Runoff

Student(s) Paloma Lenz **Grade 8** **Town** Danbury

Danbury Westside Middle School Academy Jonathan Neuhausel
2525 L8 1 Impact of natural and chemical preservatives to extend the shelf life of apple cider.

Student(s) Mathew Mathew **Grade 8** **Town** Danbury

Danbury Westside Middle School academy Jonathan Nuehausel
2510 L8 2 How can forest fires help soil regain their nutrition, and let the plant grow taller?

Student(s) Alex Morquecho **Grade 8** **Town** Danbury

Danbury Westside Middle School Academy Jonathan Neuhausel
5547 P8 1 Image Recognition to Diagnose Lyme Disease

Student(s) Khushi Parikh **Grade 8** **Town** Danbury

Danbury Westside Middle School Academy Jonathan Neuhausel
2530 L8 3 How does Bacteriophage Phi x 174 affect with E. coli differently than Bacteriophage MS2?

Student(s) Stephanie Queiroz **Grade 8** **Town** Danbury

Danbury Westside Middle School Academy Jon Neuhausel
5028 P7 2 The Effect of Fin Surface Area on Rocket Rotation at Different Locations on the X, Y and Z Axes in Relation to its Launch Point, While in Flight

Student(s) Aidan Scott **Grade 7** **Town** Danbury

Danbury Westside Middle School Academy Jonathan Neuhausel
2504 L8 2 A Study on Angiosperm Xylem Based Sucrose Filtration Systems

Student(s) Vincent Trombetto **Grade 8** **Town** Danbury

Danbury Westside Middle School Academy Jonathan Neuhausel
5506 P8 2 The Effect of Barometric Pressure on the Speed of Wifi

Student(s) Stella Walker **Grade 8** **Town** Danbury

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Danielson Ellis Tech - Green STEP Cassandra Green

3512 LST 3 Solar Powered Golf Cart

Student(s) **Dylan Bonneau** **Grade** 10 **Town** Thompson
Aaron Breen **Grade** 10 **Town** Brooklyn
Michael Page **Grade** 10 **Town** Brooklyn

Danielson Ellis Tech - Green STEP Cassandra Green

3530 LST 2 Heated Soil: Does Soil Temperature Effect Plant Growth?
A Solar Greenhouse with Radiant Heat

Student(s) **Colby Loiselle** **Grade** 10 **Town** Pomfret
Macory Merrill **Grade** 10 **Town** Danielson
Matthew Bellavance **Grade** 10 **Town** Moosup

Darien Darien High School David Lewis

6050 PS 3 Comparing Dissolved Oxygen (% and mg/L) between Mamaroneck bay and Darien harbor

Student(s) **Kellie Arevalo** **Grade** 12 **Town** Darien

Darien Darien High School David Lewis

3535 LST 3 The Effect of pH on the Dissolved Oxygen Level in the Long Island Sound

Student(s) **Corinne Bevill** **Grade** 12 **Town** Darien
Emily DeNunzio **Grade** 12 **Town** Darien

Darien Darien High School Christine Leventhal

3069 LS 2 Discovering the Pathogen Responsible for Gorgonian Wasting Syndrome on the Gorgonia ventalina sea fan

Student(s) **Onora Brown** **Grade** 12 **Town** Darien

Darien Darien High School Dr. Friedemann Freund

6525 PST 3 Positive Holes as Early Indicators for Future Earthquakes

Student(s) **Emily Findlan** **Grade** 12 **Town** Darien
Cheyenne Li **Grade** 12 **Town** Darien

Darien Darien High School Mr. Pratt

3076 LS 3 Effects of Bt Insecticides on the Mortality Rate of Juvenile Horseshoe Crab

Student(s) **John Goll** **Grade** 12 **Town** Darien

Darien Darien High School Christine Leventhal

3083 LS 2 Expression & Localization Mapping of PLEKHA7 & RNAi-Associated Proteins in HUVEC Cells

Student(s) **Paul Hager** **Grade** 12 **Town** Darien

Darien Darien High School David Lewis

3093 LS 2 Screening of Northeastern U.S. Bat Colonies for Pseudogymnoascus destructans, the Causative Agent of White Nose Syndrome

Student(s) **Carson Halabi** **Grade** 12 **Town** Darien

Darien Darien High School Christine Leventhal

3038 LS 2 Mean Platelet Volume as a Possible Diagnostic Marker for Myeloproliferative Neoplasm Disorders

Student(s) **Tanmay Mehta** **Grade** 12 **Town** Darien

Darien Darien High School David Lewis

6014 PS 1 Fast Point-based Raytracing with Sphere Bounding Volume Hierarchies

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

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Darien Darien High School David Lewis

3088 LS 3 The Bioaccumulation of Methylmercury in Atlantic Silversides

Student(s) **Alexandra Swift** Grade 12 Town Darien

Darien Darien High School Christine Leventhal

3006 LS 3 Creation of a Screening Tool for Assessing Baseball Pitching Biomechanics

Student(s) **Chris Vernal** Grade 12 Town Darien

East Hartford St. Christopher School Dr. James Tanguay

2016 L7 2 Plants!

Student(s) **Mary Poirier** Grade 7 Town East Hartford

East Hartford St. Christopher School Dr. James Tanguay

5502 P8 3 What Causes Your Stains?

Student(s) **Tatiana Rosario** Grade 8 Town East Hartford

East Lyme East Lyme High School Frederic Clark

3551 LST 3 Ants Under Pressure

Student(s) **Jonathan Tan** Grade 11 Town East Lyme
Eric Gu Grade 11 Town East Lyme
Connie Tang Grade 11 Town Salem

East Lyme East Lyme High School Frederic Clark

3543 LST 1 Investigation of Spatial Learning in Apteris Drosophila Melanogaster Using a Novel Behavioral Assay

Student(s) **Andrew Zhang** Grade 12 Town East Lyme
Mingfei Duan Grade 12 Town East Lyme
Alexa Stewart Grade 12 Town Niantic

Ellington Ellington High School Liz Cole

6101 PS 2 A natural cooling system for the last mile of vaccine delivery

Student(s) **Tina Ma** Grade 11 Town Ellington

Fairfield Assumption Catholic School Laurie Strazza

4007 PT 3 The Nexu Helmet

Student(s) **Joseph Grabowski** Grade 8 Town Fairfield
Bronson Vo Grade 8 Town Bridgeport

Fairfield Assumption Catholic School Mrs. Strazza

2008 L7 1 Plants Jammin!

Student(s) **Cadae Thomas** Grade 7 Town Bridgeport

Fairfield Fairfield College Preparatory School Mrs. Deborah Kiel

3026 LS 2 Low to Zero Cost Water Filtration Using Common Fungi

Student(s) **Antonios Boudreau** Grade 9 Town Ansonia

Fairfield Fairfield Ludlowe High School Mr. Mirrer

6083 PS 2 Options Pricing Models Using Machine Learning

Student(s) **Srihita Mediboina** Grade 12 Town Fairfield

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Fairfield St. Thomas Aquinas Catholic School Philip Flynn
4014 PT 1 Desalination: A Clean Water Alternative
Student(s) **Andrew Cimmino** Grade 7 Town Fairfield
Joshua Dixon Grade 7 Town Bridgeport

Fairfield St. Thomas Aquinas Catholic School PhillipFlynn
5018 P7 2 Can a Magnet Clean Up An Oil Spill
Student(s) **James Cunningham** Grade 7 Town Fairfield

Fairfield St. Thomas Aquinas Catholic School Philip Flynn
1006 LT 3 What Whitens your Teeth the Best
Student(s) **Kathryn Fitzgerald** Grade 7 Town Fairfield
Elliana Gallagi Grade 7 Town Fairfield

Fairfield St. Thomas Aquinas Catholic School Mr. Philip Flynn
5520 P8 2 Cosmetic Science: What Product Best Protects Lips
Student(s) **Isabelle Morse** Grade 8 Town Stratford

Falls Village Lee H. Kellogg School Joseph Markow
2527 L8 1 How Distance from Compost Affects Soil Nutrient Levels
Student(s) **Avery Tripp** Grade 8 Town Falls Village

Falls Village Lee H. Kellogg School Joseph Markow
5529 P8 2 Rust Never Sleeps
Student(s) **Natalie Wadsworth** Grade 8 Town Falls Village

Fishers Island Fishers Island School Carol Giles
3012 LS 3 The Stimulation and Inhibition of the Capitata Peg Neuron A in Mosquitoes
Student(s) **Nicholas Oickle** Grade 11 Town Groton

Fishers Island Fishers Island School Carol Giles
6048 PS 3 Quantitative Analysis of the Susceptibility of Bacillus Subtilis, Chemical and Physical Protectants and the Denaturing of the Protectants from Harmful UVB Wavelengths of 320-290nm
Student(s) **Brooklyn Redo** Grade 12 Town Fishers Island

Fishers Island Fishers Island School Carol Giles
3061 LS 3 Prevalence of Invasive Green Crab and Asian Crabs on Fishers Island
Student(s) **Caroline Toldo** Grade 12 Town Fishers Island

Forestville St. Matthew School Danielle Persichetti
2508 L8 2 Cleaning Coins
Student(s) **Ciara Collins** Grade 8 Town Bristol

Forestville St. Matthew School Danielle Persichetti
2535 L8 3 How Pigments "Leaf" The Plant
Student(s) **Peyton Kindblom** Grade 8 Town Bristol

Forestville St. Matthew School Danielle Persichetti
2025 L7 2 Read, Set, Grow
Student(s) **Malcolm Stratton** Grade 7 Town Plainville

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Forestville St. Matthew School Danielle Persichetti

2015 L7 2 A Plant's Favorite Color

Student(s) Adam Zwolinski

Grade 7 Town Bristol

Glastonbury Glastonbury High School Diane Pintavalle

3097 LS 2 Correspondence between the location of brain lesions and language behavior in aphasics: A voxel lesion symptom mapping study

Student(s) Sameeksha Agrawal

Grade 12 Town Glastonbury

Glastonbury Glastonbury High School Diane Pintavalle

6007 PS 2 Adsorption of Antimony Using Mesoporous Alumina: A Comparison to Arsenic

Student(s) Dina Allam

Grade 11 Town Glastonbury

Glastonbury Glastonbury High School Diane Pintavalle

3068 LS 3 Archaeological soil samples from Native grave sites may allow anthropologists to further understand northeastern Native American burial culture and ritual

Student(s) Fiona Jones

Grade 12 Town Glastonbury

Glastonbury Glastonbury High School Diane Pintavalle

3033 LS 2 Localized Tkv Degradation Mechanism Maintains Germline Stem Cell and Gonialblast Populations in Drosophila Testes

Student(s) Sophia Ladyzhets

Grade 12 Town Glastonbury

Glastonbury Glastonbury High School Diane Pintavalle

6063 PS 2 EFFECT OF MODIFYING THE STRUCTURE OF A KNOWN CONFORMATIONALLY RIGID CYCLIC TUNGSTEN BIS-ALKYNE COMPLEX ON BEHAVIOR AND FLEXIBILITY

Student(s) Rebecca Lee

Grade 11 Town Glastonbury

Glastonbury Glastonbury High School Diane Pintavalle

3056 LS 2 ROLE OF MIR-433 IN OSTEOSARCOMA INITIATION, PROGRESSION, AND DRUG RESISTANCE

Student(s) Samarth Venkata Menta

Grade 12 Town Glastonbury

Glastonbury Glastonbury High School Diane Pintavalle

3022 LS 3 THE DEFINITION OF THE MEDITERRANEAN DIET AND STANDARD MEANS TO MEASURE ADHERENCE

Student(s) Jayna Mikolaitis

Grade 12 Town Glastonbury

Glastonbury Glastonbury High School Diane Pintavalle

6025 PS 1 Electronic Stethoscope System for Monitoring and Analyzing Bowel Sounds

Student(s) Abhi Mohnani

Grade 11 Town Glastonbury

Glastonbury Glastonbury High School Diane Pintavalle

3100 LS 3 NOVEL DRUG INHIBITORS AFFECT CONFIRMATION OF CANCER SUPPRESSOR USP7

Student(s) Dante Morgera

Grade 12 Town South Glastonbury

Glastonbury Glastonbury High School Diane Pintavalle

3015 LS 2 INVESTIGATING THE EFFICACY OF SELENIUM AND MANGANESE FOR CONTROLLING PNEUMOCOCCAL INFECTIONS

Student(s) Athulya Narayanan

Grade 11 Town Glastonbury

Glastonbury Glastonbury High School Diane Pintavalle

6078 PS 2 The Impact Of Methoxy On The Nucleophilicity Of Re(Pyridine-Oxazoline)(Co)₃Cl And Its Rate Of Co₂ Conversion

Student(s) Nicole Nguyen

Grade 12 Town Glastonbury

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Glastonbury Glastonbury High School Diane Pintavalle
3084 LS 3 MIRRORS AFFECTING HUMAN BEHAVIOR WITH RESPECT TO DIFFERENT PERSONALITY TYPES
Student(s) **Amelia Packard** Grade 12 Town Glastonbury

Glastonbury Glastonbury High School Diane Pintavalle
6022 PS 1 ENGINEERING AN ENZYME RESPONSIVE GENETIC DELIVERY VEHICLE
Student(s) **Tushar Sondhi** Grade 12 Town South Glastonbury

Glastonbury Glastonbury High School Diane Pintavalle
6104 PS 2 Exploring the Variability of Light in the Nucleus of Galaxy NGC 4395
Student(s) **Devin Wasilefsky** Grade 11 Town South Glastonbury

Glastonbury Smith Middle School Mary Coburn
5024 P7 1 Cure For The Blues: A green, low cost adsorbent for removal of dye from aqueous solutions
Student(s) **Anika Ahilan** Grade 7 Town Glastonbury

Greens Farms Greens Farms Academy Nina Yuen
6053 PS 3 The Creation and Storage of Kinetic Energy through the Transportation of Water through a Hippo Roller
Student(s) **Conner Calzone** Grade 12 Town Norwalk

Greens Farms Greens Farms Academy Nina Yuen
6027 PS 2 A piece of unique-shaped furniture that is able to sustain a lot of weight and send signals to the rescue team about # buried people and their location.
Student(s) **Andrew Chen** Grade 12 Town Norwalk

Greens Farms Greens Farms Academy Joachim Kuhn
6015 PS 3 Combining digital interfaces with smart robots to easily make images in fields
Student(s) **William King** Grade 12 Town Old Greenwich

Greens Farms Greens Farms Academy Modupe Oshin
2534 L8 2 The Effect of Bacteriophage on E.coli Bacteria
Student(s) **Kavya Krishnamurthy** Grade 8 Town Westport

Greens Farms Greens Farms Academy Dr. Mathieu Freeman
6035 PS 2 Simulated Effects of Hydrophobic Coatings on Closed-Cycle Ocean Thermal Energy Conversion Systems
Student(s) **Kevin Maldonado** Grade 12 Town Norwalk

Greens Farms Greens Farms Academy Mrs. Oshin
5036 P7 1 The Traft
Student(s) **William McGonagle** Grade 7 Town Southport

Greens Farms Greens Farms Academy Dr. Mathieu Freeman
3016 LS 2 Finding and Comparing the Ethanol Yield of Connecticut Invasive Plant Species
Student(s) **Grace McGonagle** Grade 11 Town Southport

Greens Farms Greens Farms Academy Nina Yuen
6075 PS 2 The use of Technology to limit out of bounds errors in sports by referees
Student(s) **Sean Minson** Grade 12 Town Darien

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Greens Farms Greens Farms Academy Ms. Oshin

5039 P7 2 The Next Climbing Helmet

Student(s) Jamie Paterson

Grade 7 **Town** Stamford

Greens Farms Greens Farms Academy Nina Yuen

6019 PS 3 Location Technology for the Blind

Student(s) Kendall Roche

Grade 12 **Town** Darien

Greens Farms Greens Farms Academy Mrs. Oshin

2003 L7 3 App for Charities in Connecticut

Student(s) Makda Tessema

Grade 7 **Town** Bridgeport

Greenwich Brunswick School Dana Montanez

3079 LS 2 Dimethylglycine: An Investigation on the Aerobic Capacity of Yeast

Student(s) Logan Darrin

Grade 10 **Town** Greenwich

Greenwich Brunswick School Dana Montanez

3538 LST 2 Methylmercury Concentrations in Fish Tissue: A Further Analysis of Fish in the Long Island Sound vs. the Atlantic Ocean

Student(s) AJ Delgado

Grade 11 **Town** Riverside

Ryan Mulshine

Grade 11 **Town** Greenwich

Greenwich Brunswick School Jarrett Shine

3515 LST 1 Improving Durability and Strength of Bombyx mori Silk by Fortifying Primary Food Source

Student(s) Lucas Delgado

Grade 10 **Town** Riverside

Alexander Burdick

Grade 10 **Town** Riverside

Greenwich Brunswick School Dana Lee Montanez

3546 LST 1 A Lense to Explore Life on Other Planets: Using Targeted Genome Editing Technologies to Test Survival in Extraterrestrial Environments

Student(s) Thomas Foley

Grade 11 **Town** Greenwich

Thomas Kimberlin

Grade 11 **Town** Greenwich

Greenwich Brunswick School Dana Montanez

6503 PST 2 Utilization of Vertical Tidal Range to Generate and Store Electrical Current

Student(s) William George

Grade 11 **Town** Greenwich

Harold Barringer

Grade 11 **Town** Greenwich

Greenwich Brunswick School Dana Montanez

6082 PS 2 Solar Geoengineering: The Capacity of Aerosols to Reflect Light and Reduce Temperature

Student(s) Ryan Glanville

Grade 10 **Town** Greenwich

Greenwich Brunswick School Dana Montanez

6532 PST 2 Examination of the Magnetic Levitation Wind Turbine and its Conventional Counterpart

Student(s) Peter Lehrman

Grade 10 **Town** Greenwich

Alexander Morgan

Grade 10 **Town** Greenwich

Greenwich Brunswick School Dana Montanez

3040 LS 2 A comparative analysis of the efficiencies of hydroponic and aeroponic systems

Student(s) William McLaren

Grade 10 **Town** Greenwich

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Greenwich Brunswick School Dana Montanez
6045 PS 2 Perovskite v. Silicon Solar Panels: the Effect of Mirrored Light on Overall Efficiency
Student(s) Eric Meindl **Grade** 10 **Town** Riverside

Greenwich Brunswick School Dana Montanez
3049 LS 3 Use of Regression Analysis to Predict Future Outbreaks of Malaria
Student(s) Jamison Meindl **Grade** 10 **Town** Riverside

Greenwich Brunswick School Dana Montanez
6001 PS 1 Diagnosing Knee Osteoarthritis using Artificial Neural Networks
Student(s) Matthew Pillari **Grade** 11 **Town** Greenwich

Greenwich Brunswick School Dana Montanez
3503 LST 3 An Investigation of the Behavioral and Reproductive Patterns of Hemigrapsus Sanguineus
Student(s) Asher Porphy **Grade** 11 **Town** Harrison
Timothy Saunders **Grade** 11 **Town** New Canaan

Greenwich Brunswick School Dana Montanez
6529 PST 2 Harvesting Kinetic Energy from Waves using "See-Saw Floating Arms"
Student(s) David Swigart **Grade** 10 **Town** Greenwich
Philip Chadwell **Grade** 10 **Town** Greenwich

Greenwich Greenwich Catholic School Mrs. Lutz
4005 PT 3 Creamalicious
Student(s) Sofia Caracciolo **Grade** 7 **Town** Stamford
Morgan Adamson **Grade** 7 **Town** Stamford
Maria Profili **Grade** 7 **Town** Greenwich

Greenwich Greenwich Catholic School Lutz
2020 L7 1 Hydrogen Power
Student(s) Sebastian Henao **Grade** 7 **Town** Stamford

Greenwich Greenwich Catholic School Mrs. Carol Ann Lutz
5554 P8 3 A SUPERIOR VITAMIN THAT IS ANTI-INFLAMATORY AND ANTIBACTERIAL "VITAGUMMIES"
Student(s) Monica Marino **Grade** 8 **Town** Riverside

Greenwich Greenwich Catholic School Carol Lutz
2517 L8 3 Music Therapy APPLIED
Student(s) Ella Ann Woei **Grade** 8 **Town** Greenwich

Greenwich Greenwich Country Day School Sam Rosenfeld
5031 P7 1 A computer can use machine learning to teach itself to be as good or better at blackjack than the experts.
Student(s) C. Brooks Harris **Grade** 7 **Town** Greenwich

Greenwich Greenwich High School Andrew Bramante
3103 LS 1 From Tobacco to a Chemical Cocktail: A Smoker's E-cigarette Alternative May Lead to Bronchiolitis Obliterans
Student(s) Hannah Goldenberg **Grade** 9 **Town** Old Greenwich

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Greenwich Greenwich High School Andrew Bramante

3106 LS 1 Magnesium Micromotor-Enabled Delivery of Oral, All-Natural Antibacterials for the Effective Targeting and Treatment of Urinary Tract Infection Causality in Infant Mortality

Student(s) Charlotte Hallisey **Grade** 10 **Town** Greenwich

Greenwich Greenwich High School Andrew Bramante

3064 LS 1 Biomimetic Degradation of Persistent Pollutants Using Common Wax Worm *Sakaiensis* Bacteria

Student(s) Bennett Hawley **Grade** 11 **Town** Cos Cob

Greenwich Greenwich High School Mr. Bramante

3087 LS 1 Non-Invasive, Low Cost Diagnosis of Chronic Obstructive Pulmonary Disease (COPD) via Smartphone Breath Analysis

Student(s) Hiba Hussain **Grade** 10 **Town** Old Greenwich

Greenwich Greenwich High School Andrew Bramante

6051 PS 1 Magnetically-induced, Visual Detection of Trace Arsenic Contaminants in Water Using Fe₃O₄ Photonic Crystal Structures

Student(s) Raina Jain **Grade** 10 **Town** Greenwich

Greenwich Greenwich High School Andrew Bramante

3095 LS 1 Ultrasensitive, Lab-on-a-Chip Detection of HIV via a Fluorescence-based, Europium-Doped Silica Nanoparticle Immunoassay

Student(s) Joe Konno **Grade** 11 **Town** Greenwich

Greenwich Greenwich High School Andrew Bramante

6029 PS 2 New Abundant and Sodium-Free Metakaolin Solid Electrolyte Ceramic for Power Grid Na-Ion Batteries

Student(s) Alexander Kosyakov **Grade** 11 **Town** Riverside

Greenwich Greenwich High School Andrew Bramante

6033 PS 1 Open-source, In-field Smartphone Detection and Mapping of Waterborne Diseases via Time-Based Spectroscopic Sensing with a New 3D Printable Optical Interface

Student(s) Nicholas Liu **Grade** 11 **Town** Greenwich

Greenwich Greenwich High School Andrew Bramante

3035 LS 2 Autonomously Killing Cancerous Cells by the Detection of up to Single Nucleotide Mutations

Student(s) Collin Marino **Grade** 11 **Town** Greenwich

Greenwich Greenwich High School Andrew Bramante

3070 LS 1 Honeybee Melittin Apitherapy for Targeted Cancer Suppression and Decimation

Student(s) Dante Minichetti **Grade** 12 **Town** Greenwich

Greenwich Greenwich High School Mr. Bramante

3075 LS 2 Design and Fabrication of a Smart, Medicated Gel Bandage to Deliver Antibiotics to a Draining Wound

Student(s) Romano Orlando **Grade** 12 **Town** Greenwich

Greenwich Greenwich High School Andrew Bramante

6046 PS 2 Predicting the Fluctuation of Stocks During the 3-6 Day Period Before and After Quarterly Profit Announcements

Student(s) Armstrong Park **Grade** 11 **Town** Riverside

Greenwich Greenwich High School Andrew Bramante

3042 LS 1 Controlled-Release Delivery of Ovarian Anticancer Paclitaxel via Vortex Ring, Donut-shaped Hydrogels

Student(s) Emily Philippides **Grade** 12 **Town** Greenwich

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Greenwich Greenwich High School Andrew Bramante

6090 PS 1 Simple Gold Nanoparticle-based Colorimetric Detection of Escherichia coli in a Tap Water Matrix via Microfluidic Chip Assay

Student(s) Amit Ramachandran **Grade** 12 **Town** Stamford

Greenwich Greenwich High School Andrew Bramante

3060 LS 2 Non-Invasive Colorimetric Biosensor for Early Diagnosis of Prostate Cancer Through DNA-Mediated MicroRNA Detection

Student(s) Rahul Subramaniam **Grade** 11 **Town** Cos Cob

Greenwich Greenwich High School Andrew Bramante

3057 LS 2 Detection of Early-Stage Alzheimer's Disease via Hierarchical Classification of Proteomic and Clinical Profiles

Student(s) Shobhita Sundaram **Grade** 12 **Town** Greenwich

Greenwich Greenwich High School Andrew Bramante

6079 PS 1 Ambient Carbon Dioxide Capture and Purified Gas Release Using Asphalt-Waste Derived, Porous Carbon Filtration

Student(s) Melissa Woo **Grade** 10 **Town** Riverside

Greenwich Greenwich High School Mr. Bramante

6058 PS 1 Remediation of Heavy Metal and Fertilizer-Runoff Contaminants using High Throughput, Silk Nanofiber Biomimetic Multilayer Membranes

Student(s) Nicholas Woo **Grade** 11 **Town** Greenwich

Greenwich Greenwich High School Andrew Bramante

6098 PS 1 Cost-Effective and Fully Recycled Filtration of Heavy Metals from Drinking Water Using Used Coffee Grounds Embedded in Discarded Polyurethane Sponges

Student(s) Verna Yin **Grade** 11 **Town** Cos Cob

Groton Sacred Heart School Dr. Juan Pacheco

5560 P8 2 Does temperature effect Helium loss from a balloon?

Student(s) Julia Ferris **Grade** 8 **Town** Ledyard

Groton Sacred Heart School Juan Pacheco

5530 P8 3 Simple Motor and Electromagnet

Student(s) Samuel Hammond **Grade** 8 **Town** New London

Groton Sacred Heart School Dr. Juan Pacheco

5037 P7 2 Watt's the Cost?

Student(s) Connor Harris **Grade** 7 **Town** Mystic

Groton Sacred Heart School Dr. Juan Pacheco

5009 P7 1 How Do Mixtures of Chiral Substances Affect the Rotation of Plane Polarized Light

Student(s) Payton Noe **Grade** 7 **Town** East Lyme

Groton Sacred Heart School Dr. Pacheco

5551 P8 3 The Thermodynamics of Chemiluminescence

Student(s) Kathleen Power **Grade** 8 **Town** Mystic

Groton Sacred Heart School Juan Pacheco

5021 P7 3 Can Gravity Sort Beads?

Student(s) Avery Rembish **Grade** 7 **Town** Groton

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Guilford Guilford High School Dr. Harry Briemann
3101 LS 3 Cystic Fibrosis Transmembrane Conductance Regulator Protein Misassembly in Correlation to Cystic Fibrosis

Student(s) Mariam Kish **Grade** 11 **Town** Guilford

Hamden Sacred Heart Academy Sibani Sengupta
3052 LS 2 Insights into cellular reprogramming: a computational biology approach.

Student(s) Kelly Frier **Grade** 11 **Town** Middlefield

Hamden Sacred Heart Academy Ms. Tubis
3019 LS 2 Spice It Up: The Use of Turmeric to Preserve Milk

Student(s) Shabrang Montazer **Grade** 9 **Town** Hamden

Hamden Sacred Heart Academy Dr. Elizabeth Christophy
6084 PS 2 Ammonia on Other Earths: Sensitive Chemical Tests for Future Probes

Student(s) Maria Papademetris **Grade** 10 **Town** New Haven

Hamden Sacred Heart Academy Sibani Sengupta
6097 PS 3 Comparing the Strengths of Industrial and Medical Cyanoacrylates

Student(s) Adalyn Schommer **Grade** 10 **Town** Cheshire

Hartford Bulkeley High School Genesis Quiles-Galarza
6502 PST 3 Play Dough Solidification

Student(s) Xavier Grant **Grade** 11 **Town** Hartford

Natonia Hunte **Grade** 11 **Town** Hartford

Hartford Bulkeley High School Genesis Quiles-Galarza
3531 LST 3 Which Starch Plant Produces the Most Fuel?

Student(s) Sanya Hewitt **Grade** 12 **Town** Hartford

Alison Ramirez-Cahuana **Grade** 12 **Town** Hartford

Merceda McClain **Grade** 12 **Town** Hartford

Hartford Bulkeley High School Ms. Quilles
6526 PST 3 How Do Various Liquids Affect The Rusting Process On A Metal Object?

Student(s) Aisha Minteh **Grade** 11 **Town** Hartford

Samanta Dumornay **Grade** 11 **Town** Hartford

Mekyiah Thompson **Grade** 11 **Town** Hartford

Hartford Bulkeley high School Ms.Quiles
3524 LST 3 How will various acids affect the decomposition rate of an apple?

Student(s) Daviely Rivera **Grade** 11 **Town** Hartford

Kiana Torres **Grade** 11 **Town** Hartford

Hartford Bulkeley High School Ms. Quiles
6508 PST 3 Key Finding Application

Student(s) Alondra Rodriguez **Grade** 11 **Town** Hartford

Tajon Nickson **Grade** 11 **Town** Hartford

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Hartford Bulkeley High School Genesis Quiles-Galarza
3540 LST 3 How can color therapy help people improve their well being
Student(s) Tatyana Santiago Grade 11 Town Hartford
Jeaneily Mendoza Grade 11 Town Hartford

Hartford Bulkeley High School Genesis Quiles-Galarza
6534 PST 3 How Substance pH Affects Gummy Bear Mass
Student(s) Raymonde Smith Grade 12 Town Hartford
Lena Lac Grade 12 Town Hartford
Shannel Senior Grade 12 Town Hartford

Hartford Environmental Sciences Magnet School at Mary Mrs. Hays
2022 L7 2 Memorizing With Music
Student(s) Maria Amisano Grade 7 Town East Granby

Hartford Environmental Sciences Magnet School at Mary Ms.Hays
2013 L7 3 Whats On Your Mind
Student(s) Catherine Fay Grade 7 Town Middletown

Hartford Environmental Sciences Magnet School at Mary Mrs. Rebecca Hays
5014 P7 2 Sweet And Bitter Turned To Ash
Student(s) Adrian Lewczuk Grade 7 Town New Britain

Hartford Environmental Sciences Magnet School at Mary Ms.Hays
5514 P8 3 Copper Water
Student(s) Yanayra Rosa Grade 8 Town Newington

Hartford Environmental Sciences Magnet School at Mary mrs. Hays
2005 L7 2 It's Brine Time: A Study of How Salinity Affects the Hatching Rate of Brine Shrimp
Student(s) Brianna Sanchez Grade 7 Town Enfield

Hartford Environmental Sciences Magnet School at Mary Becca Hays
2029 L7 1 Informal Soldiers
Student(s) William Visalga Grade 7 Town Newington

Hartford Renzulli Academy Kelley Howe
4017 PT 3 Catch'em With Color
Student(s) Elhame Adam Grade 7 Town Hartford
Mikhaila Entsiwah Grade 7 Town Manchester

Hartford Renzulli Academy Kelly Howe
4030 PT 2 Case No: 520910 Fingerprint Finding
Student(s) Danielle James Grade 7 Town East Hartford
Nasere Lewin Grade 7 Town Hartford

Hartford Renzulli Academy Ms.Howe
4027 PT 2 C-9: Project Solar Drone Project XD3
Student(s) Anthony Lessor Grade 7 Town Bloomfeild
Raphael Burgos Grade 7 Town Hartford
Alano Oquendo Grade 7 Town Hartford

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Hartford Renzulli Academy Kelley Howe
5023 L7 3 Potato Power!!
Student(s) Alexis Maldonado **Grade 7** **Town** East Hartford

Hartford Renzulli Academy Kelley Howe
4009 PT 2 Crystals!
Student(s) Melanie Ramos **Grade 8** **Town** Hartford
Pwit Phoo **Grade 8** **Town** Hartford

Hartford Renzulli Academy Kelley Howe
5013 P7 3 Science Behind Slime
Student(s) Jennifer Urbano **Grade 7** **Town** Hartford

Hebron RHAM High School Alexa Mitchell
3030 LS 3 A Computer Model of The Effect of Familial Structure on the Spread of the Influenza Virus
Student(s) Isabelle Benson-Clarke **Grade 10** **Town** Marlborough

Kensington St. Paul School Michael Maggiore
2018 L7 3 Which gender has a better memory
Student(s) Reiyako Pigeon **Grade 7** **Town** New Britain

Kent Kent School Jesse Klingebiel
6017 PS 2 Deep neural network based subspace learning of robotic manipulator workspace mapping
Student(s) Peiyuan Liao **Grade 10** **Town** Kent

Manchester East Catholic High School Lesa Milas
6040 PS 2 Relation between different types of water turbine and the level of hydroelectric power produced
Student(s) Madison Lee **Grade 9** **Town** Rocky Hill

Manchester East Catholic High School Lesa Milas
6091 PS 1 Prototype Cotton Based Poly(N-isopropylacrylamide) Smart Hydrogel that Undergoes Hydrophilic-to-Hydrophobic Transition to Capture and Release Fresh Water from Humid Air
Student(s) John Oei **Grade 9** **Town** Hebron

Manchester Manchester High School Megan Rader
6005 PS 2 Effect of Various Ambient Gases on Stability of Perovskite Solar Cells
Student(s) Khundker Hossain **Grade 12** **Town** Manchester

Manchester Manchester High School Megan Rader
3105 LS 3 Does the Consumption of Certain Foods Affect Angiogenesis?
Student(s) Taylor Keyt **Grade 12** **Town** Manchester

Milford Lauralton Hall Peter Knipp
3081 LS 2 Is the application of plantago major effective in inhibiting bacteria and having medicinal benefits?
Student(s) Meghana Cheela **Grade 9** **Town** Milford

Milford Lauralton Hall Dr.Knipp
3004 LS 3 How do various sediments affect the growth and spreading of Naegleria Fowleri (Brain eating Amoeba)
Student(s) Rachna Vipparla **Grade 9** **Town** Milford

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Milford Platt Tech - Green Step Jessica Stamp

6515 PST 2 Domestic Water Reuse System

Student(s)	Christian Haupt	Grade 11	Town West Haven
	Taylor Krieder	Grade 11	Town Stratford
	Christian Ramos	Grade 11	Town Stratford

Milford Platt Tech - Green Step Jessica Stamp

6504 PST 3 Green Grocer. An app to reduce food waste and encourage healthy eating.

Student(s)	Veronica Novack	Grade 11	Town Seymour
	Samantha Laste	Grade 11	Town Stratford
	Taylor Jensen	Grade 11	Town Ansonia

New Britain Goodwin Tech - Green STEP Mr.Donaghy

6505 PST 3 Mag Mover

Student(s)	Nicholas Fusco	Grade 10	Town Bristol
	Jace Lemrise	Grade 10	Town Plainville

New Britain Goodwin Tech - Green STEP Michael Scott

3510 LST 3 Portable Emergency Water Filtration System

Student(s)	Michael Lopez	Grade 10	Town Bristol
	Thomas Batty	Grade 10	Town New Britain
	James Tanski	Grade 10	Town Plainville

New Britain Goodwin Tech - Green STEP Mr. Hinners

3517 LST 2 Solar Hybrid Organic Charger (SHOC)

Student(s)	Juan Ospina	Grade 11	Town New Britain
	Daneirys Rivera	Grade 11	Town Bristol
	Xavier Santiago	Grade 11	Town Bristol

New Canaan St. Aloysius School Deborah Phillips

5012 P7 2 More Water, Less Carbon.

Student(s)	Jackson Saucedo	Grade 7	Town Darien
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New Canaan St. Aloysius School Deborah Phillips

4021 PT 3 Art of Drones

Student(s)	Andrew Tully	Grade 8	Town Norwalk
	Kali Dimitrov	Grade 8	Town Norwalk
	Alex Lanzillotti	Grade 8	Town stamford

New Haven Betsy Ross Arts Magnet School Roisin Macdonald

2509 L8 1 Brushing Bacteria

Student(s)	Kendall Evans	Grade 8	Town Ansonia
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New Haven Betsy Ross Arts Magnet School Mrs Macdonald

5539 P8 1 Hovercraft

Student(s)	Kaylee Fitzgerald	Grade 8	Town Naugatuck
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New Haven Betsy Ross Arts Magnet School Roisin Macdonald

5011 P7 1 From Biomass To Biogas

Student(s)	Matilda Petrnick	Grade 7	Town Stratford
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New Haven Betsy Ross Arts Magnet School K.Cichus

2014	L7	1	Clean up your act
Student(s) Josiah Williamson			Grade 7 Town New Haven

New Haven Conte West Hills School Vanessa Clayton

5038	P7	2	The Heat Is On
Student(s) Jose Sarango			Grade 7 Town New Haven

New Haven St. Bernadette School Mr. Kerry Martens

5501	P8	2	Cracking M&Ms in the Microwave
Student(s) Christopher Enzo De Castro			Grade 8 Town Milford

New Haven St. Bernadette School Mr Kerry Martens

5004	P7	2	Determining the count of electrolytes in various drinks
Student(s) Isabella Purcell			Grade 7 Town East Haven

New Haven Wilbur Cross High School Nick Farrell & Joseph Zebrowski

3059	LS	1	Do rewards affect neuro-electrical resistance?
Student(s) Carlin Eswarakumar			Grade 11 Town New Haven

New Haven Wilbur Cross High School Dr. Bernard Hulin

6061	PS	1	Synthesis and Separation Of a Chiral Compound In Preparation Of a Positron Emission Tomography (PET) Radiotracer
Student(s) Maya Geradi			Grade 12 Town New Haven

New Haven Worthington Hooker Middle School Mr. Jones

2010	L7	1	Underwater Battle:The Effect of Pollution on Brine Shrimp
Student(s) Athena Brown			Grade 7 Town New Haven

New Haven Worthington Hooker Middle School Douglas Jones

5522	P8	3	Quiet as a mouse
Student(s) Aminah Fields			Grade 8 Town New Haven

New Haven Worthington Hooker Middle School Mr Jones

4008	PT	2	Catapult Lab
Student(s) Dusty Gibbon			Grade 7 Town New Haven
Student(s) Noah Brown			Grade 7 Town New Haven

New Haven Worthington Hooker Middle School Mr. Jones

5001	P7	3	Powered Up Potatoes
Student(s) Julia Rosado			Grade 7 Town New Haven

New Haven Worthington Hooker Middle School Douglas Jones

4016	PT	2	Solving the Flood Problem: One Rock at a Time
Student(s) Sage Urban			Grade 8 Town New Haven
Student(s) Amelia Cox			Grade 8 Town New Haven

New Haven Worthington Hooker Middle School Douglas Jones

5553	P8	2	Burning Calories: What's in Your Breakfast?
Student(s) Katherine Van Tassel			Grade 8 Town New Haven

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New London Bennie Dover Jackson Middle School Willie Barber

1015 LT 3 Eins

Student(s) **Evangeline Baez** **Grade 8** **Town** New London
Estefany Almanzar **Grade 8** **Town** New London

New London Bennie Dover Jackson Middle School Willie Barber

5507 P8 3 Green Step

Student(s) **Jennifer Fiestas** **Grade 8** **Town** New London

New London Bennie Dover Jackson Middle School Barber

4024 PT 3 Healthy Or Harmful Application Prototype

Student(s) **Taavi Veltheim** **Grade 8** **Town** New London
Carissa Mims **Grade 8** **Town** Jewett City

New London Science and Technology Magnet High School David Brown

6522 PST 3 Temperature-Viscosity Relationship in Predicting Seasonal Motor Function

Student(s) **Zachary Bachofner** **Grade 9** **Town** North Stonington
Zachary Stock **Grade 9** **Town** North Stonington

New London Science and Technology Magnet High School Karen Napolitano

3514 LST 2 The Effect of Soil Acidity on Stomatal Concentrations of Solanum lycopersicum.

Student(s) **Sara Beth Bouchard** **Grade 10** **Town** Waterford
Oliver Guijarro-Sines **Grade 10** **Town** New London

New London Science and Technology Magnet High School Charles Mulligan

6012 PS 3 Correlations Between Insulator Composition and Potential to Retain Temperature

Student(s) **Jaylen Callender** **Grade 9** **Town** Montville

New London Science and Technology Magnet High School Moniz

3092 LS 3 Implications for Increased Acidity for Metabolic Function of Freshwater Microinvertebrates (Daphnia magna)

Student(s) **Pedro Camacho-Leon** **Grade 11** **Town** Norwich

New London Science and Technology Magnet High School Charles Mulligan

3077 LS 3 Results of Construction Vibrations on the Opening and Closing of a Stomata.

Student(s) **Luisanny Castillo** **Grade 10** **Town** New London

New London Science and Technology Magnet High School Charles Mulligan

3539 LST 2 Drug Solubility: Influence of Acid Concentration on Solubilized and Unsolubilized Ibuprofen Over Time

Student(s) **Ella Cook** **Grade 9** **Town** Stonington
Julissa Rodriguez **Grade 9** **Town** New London

New London Science and Technology Magnet High School David Brown

3003 LS 3 Modeling origin of blood via patterns in stain.

Student(s) **Alexandria DeGunia** **Grade 9** **Town** Waterford

New London Science and Technology Magnet High School Charles Mulligan

6039 PS 3 Natural vs Synthetic Drinks Compared by Electrolyte Concentration

Student(s) **Owen George** **Grade 10** **Town** Uncasville

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New London Science and Technology Magnet High School Charles Mulligan

3039	LS	2	Effects of Increased Acidity on Freshwater Chlorophytes (Euglena sp.)
Student(s) Kyle Heard			Grade 10 Town Norwich

New London Science and Technology Magnet High School David Brown

6077	PS	3	Implication of Fuel Type and Volume on Terminal Velocity of Projectiles
Student(s) Esoha Kadambaya			Grade 9 Town Norwich

New London Science and Technology Magnet High School Karen Napolitano

3072	LS	3	Seaweed Bio-extraction: Influence of Green Algae (Ulva spp) and Sugar Kelp (Saccharina spp) on Carbon Dioxide Levels in the Atmosphere
Student(s) Kiera McCord			Grade 10 Town Norwich

New London Science and Technology Magnet High School Charles Mulligan

3521	LST	3	Survivorship of Fresh Crustacea in Temperature Extremes
Student(s) Jo Potter			Grade 11 Town New London
Jaelynn Potter			Grade 10 Town New London

New London Science and Technology Magnet High School Mulligan, Charles

3098	LS	3	The amount of carbon dioxide released by different model motor vehicles
Student(s) Christopher Silva			Grade 11 Town New London

New London Science and Technology Magnet High School Isabela Moniz

3109	LS	3	Kinetics of Sucrose Conversion to Glucose Using Enzyme (Invertase) Across a Dietary Spectrum
Student(s) Finella Smith			Grade 9 Town Pawcatuck

New London Science and Technology Magnet High School Mr. Mulligan

3014	LS	2	The Effect of Light Intensity on the Regeneration of Planarians (Dugesia sp.)
Student(s) Jane Statchen			Grade 9 Town Stonington

Newtown Newtown Middle School Jeffery Shupp

2521	L8	2	Design and Testing of a Chitin-based Filter for Bio-remediation of Nitrates
Student(s) Marguerite LaBanca			Grade 8 Town Sandy Hook

Newtown St. Rose of Lima School Mrs. Anastasia Damalas

2019	L7	1	Does PH affect the growth of grass?
Student(s) Julia Cirone			Grade 7 Town Newtown

Newtown St. Rose of Lima School Nona Geloso

5023	P7	3	The effect of air pressure on the dynamics of ball bouncing.
Student(s) Jaxon Geloso			Grade 7 Town Oxford

Newtown St. Rose of Lima School Mrs. Damalas

5026	P7	1	Effect Of Energy Drinks on Tooth Enamel
Student(s) Nicholas Prieto			Grade 7 Town Newtown

Newtown St. Rose of Lima School Mrs Damalas

5006	P7	2	The impact of angle on the amount of energy created by solar panels
Student(s) Thomas Simms			Grade 7 Town Newtown

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Newtown St. Rose of Lima School Ms Damalas

5008 P7 3 Battery Life

Student(s) Isabella Thomas

Grade 7 **Town** Oxford

Norwich Norwich Tech - Green STEP Pelloni

3525 LST 2 Creating Renewable Light Source in Dionaea muscipula Using GFP

Student(s) Hailey Bill

Grade 11 **Town** Baltic

Emerald Haller

Grade 11 **Town** Preston

Norwich Norwich Tech - Green STEP Aleatha Pelloni

6043 PS 2 The Effect Cellulase and Pectinase Have on the Extraction Methods Used to Isolate the Oil Spirulina Major Algae Produces Which Can Be Converted into Biodiesel More Efficiently.

Student(s) Joshua McConnell

Grade 11 **Town** Baltic

Norwich Norwich Tech - Green STEP Aleatha Pelloni

3511 LST 2 Using the Tidal Zone as a Renewable Source for Antibiotic-Producing Microbes

Student(s) Edward Russell

Grade 11 **Town** Colchester

Nathanael Padgett

Grade 11 **Town** Lebanon

Norwich Norwich Tech - Green STEP Aleatha Pelloni

3501 LST 3 Isolating Bacillus thuringiensis from Soil Samples in Order to Develop a More Effective Biopesticide for Agricultural Lepidopteran Pests.

Student(s) Kelsey Williams

Grade 11 **Town** Gales Ferry

Douglas Rediger

Grade 11 **Town** Baltic

Norwich Norwich Technical High School Lisa Elliott

3534 LST 2 Applying Educational Approaches to Reduce the Stigmas Associated with Attention Deficit Hyperactivity Disorder

Student(s) Halle Baron

Grade 12 **Town** Danielson

Sylkia Hernandez

Grade 12 **Town** Plainfield

Norwich Norwich Technical High School Lisa Elliott

3519 LST 2 Education Increases Empathy Towards Autism.

Student(s) Kalli Campbell

Grade 12 **Town** Uncasville

Taylor Plante

Grade 12 **Town** Jewett City

Norwich Norwich Technical High School Lisa Elliott

3505 LST 2 Perceptions surrounding mental illness can be diminished with education and knowledge about Dissociative identity disorder

Student(s) Emily Cherwin

Grade 12 **Town** Norwich

Makayla Carson

Grade 12 **Town** Quaker Hill

Norwich Norwich Technical High School Aleatha Pelloni

6524 PST 3 The Effects of Breaking Down Universal Gold 1%/3% Foam Replacing ingredients with Renewable Resources

Student(s) John Coleman

Grade 11 **Town** Norwich

Aaron Toof

Grade 11 **Town** Voluntown

Norwich Norwich Technical High School Jesse Morin

3522 LST 2 Investigation of the Tenascin-X Protein and its Role in Ehlers-Danlos Syndrome

Student(s) Brianna Dziekan

Grade 12 **Town** Baltic

Athena Missios

Grade 12 **Town** Uncasville

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Norwich Norwich Technical High School Lisa Elliott

3541 LST 2 Modifying Adolescent Behavior by Educating them on Bipolar Disorder to Diminish the Stigmas associated

Student(s) Debbie Garcia
Chloe Guzman

Grade 12 **Town** Norwich
Grade 12 **Town** Pawcatuck

Norwich Norwich Technical High School Lisa Elliott

3544 LST 2 Education's Impact on Perceptions About Borderline Personality Disorder

Student(s) Noelis Guzman
Ashley Varjenski
Kaitlyn Stripling

Grade 12 **Town** Norwich
Grade 12 **Town** Colchester
Grade 12 **Town** Voluntown

Norwich Norwich Technical High School Aleatha Pelloni

3547 LST 3 What "Bugs" Gromphadorhina portentosa?

Student(s) Gabrielle Martin
Samantha Grott

Grade 11 **Town** North Stonington
Grade 11 **Town** Bozrah

Norwich Norwich Technical High School Jesse Morin

3516 LST 2 Evaluating an LCHAD Deficiency Model System Created Using CRISPR/Cas9 and C. elegans

Student(s) Courtney Michaud
Kyle Tempesta

Grade 12 **Town** Norwich
Grade 12 **Town** Uncasville

Norwich Norwich Technical High School Dr. Jesse Morin

3053 LS 2 The Effect of Teaching Through A Research-Based Curriculum Versus Traditional Methods on Educational Outcomes

Student(s) Christopher Papotto

Grade 12 **Town** Colchester

Norwich Norwich Technical High school Lisa Elliott

3550 LST 3 Knowledge will increase behavioral changes and acceptance of individuals experiencing obsessive-compulsive disorder

Student(s) Kaitlin Reen
Genesis Tavarez

Grade 12 **Town** Plainfield
Grade 12 **Town** New London

Norwich Norwich Technical High School Chris Porto

6506 PST 3 Research and construction of a Tesla Coil.

Student(s) Michael Reid
Matthew Cloutier

Grade 12 **Town** Lebanon
Grade 12 **Town** Hanover

Norwich Norwich Technical High School Dr. Morin

3017 LS 1 Can probiotic yeast be used to decrease the severity of Type 2 Diabetes symptoms in a Drosophila melanogaster disease model?

Student(s) Gianpierre Roche

Grade 12 **Town** Willimantic

Norwich Norwich Technical High School Ernest Todd

6510 PST 2 Robotic Hand

Student(s) Aaron Steendam
Justin Relaz

Grade 11 **Town** Canterbury
Grade 11 **Town** Norwich

Norwich Norwich Technical High School Dr. Morin

3089 LS 1 The Effect of the FAAH Gene on Alcohol Consumption and Inhibition in C. elegans

Student(s) Ryan Stollman

Grade 12 **Town** Colchester

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Pawcatuck St. Michael School Anna-Helene Grossomanides

2001 L7 3 Does a female's sport and medical history affect their gait and possibly cause a gait abnormality?
Student(s) Molly Kulick **Grade 7** **Town** Mystic

Pawcatuck St. Michael School Mrs. Grossomanides

5508 P8 2 The Effect of Brand Selection on the UV Blocking Ability of Sunscreen
Student(s) Samuel Montalto **Grade 8** **Town** Westerly

Pawcatuck St. Michael School Ann-Helene Grossomanides

5005 P7 3 Possible uses of magnets in modern construction and transportation
Student(s) William Wholean **Grade 7** **Town** Pawcatuck

Plantsville J.F. Kennedy Middle School Mrs. Pepin

5020 P7 3 Rollin' Along
Student(s) Alisha Paul **Grade 7** **Town** Southington

Redding CT STEM FAIR - Amity Regional High School Catherine Piscitelli

6093 PS 3 Determining Best 3D Printing Materials to Create Model Human Vertebrae
Student(s) McAllister Dixon **Grade 9** **Town** Woodbridge

Redding CT STEM FAIR - Amity Regional High School Catherine Piscitelli

6531 PST 3 Traffic Data Analysis of Car Crashes in New Haven
Student(s) Austin Gilbride **Grade 11** **Town** Woodbridge
Joseph Benedetti **Grade 11** **Town** Bethany

Redding CT STEM FAIR - Amity Regional High School Deborah Day

3108 LS 2 Determining the Effect of Flow on Time Perception
Student(s) Alicia Gopal **Grade 9** **Town** Woodbridge

Redding CT STEM FAIR - Amity Regional High School Deborah Day

6042 PS 2 Comparison of 14-Day Survival and Development of *Lymantria dispar asiatica* and *Lymantria dispar dispar* on Out-of-Season Foliages
Student(s) Jody Liu **Grade 10** **Town** Orange

Redding CT STEM FAIR - Amity Regional High School Deborah Day

3048 LS 2 The Effect of the Altering of the Light-Dark Cycle on the Mass (g) of Leafy Green Algae (*Ulva lactuca*) Eaten by the Periwinkle Snail (*Littorina littorea*)
Student(s) Nicole Mongillo **Grade 10** **Town** Orange

Redding CT STEM FAIR - Amity Regional High School Deborah Day

3024 LS 2 The Effect of Misophonia on Selective Attention Control
Student(s) Hannah Rappaport **Grade 12** **Town** Orange

Redding Joel Barlow High School Dr. Katherine Nuzzo

3013 LS 2 Effects of Soil Composition on the Decline of *Fraxinus americana*
Student(s) Sean Mullin **Grade 11** **Town** Redding

Redding Joel Barlow High School Katherine Nuzzo

3002 LS 3 The Role of Temperature in Indoor Vermicomposting with *Eisenia Fetida* in Leachate Production and Quality via Limiting Nutrients P+ and N+
Student(s) Rachel Wagner **Grade 12** **Town** Redding

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Ridgefield Ridgefield High School Ryan Gleason
3037 LS 2 Functional Impact of RBP2 on Celular Senescence and Pluripotency in Murine Breast Cancer Cell Lines
Student(s) Nicole Alindogan **Grade 12** **Town** Ridgefield

Ridgefield Ridgefield High School Patrick Hughes
3034 LS 3 Genetic Mechanisms Regulating Expression of Tor and EGFR Genes in Eusocial and Primitively Social Insects
Student(s) Maia Clarkin **Grade 12** **Town** Ridgefield

Ridgefield Ridgefield High School Ryan Gleason
3018 LS 1 Testing the Effectiveness of Various Shading Materials on Mock Leatherback Sea Turtle Nests
Student(s) Annabelle Colao **Grade 12** **Town** Ridgefield

Ridgefield Ridgefield High School Mr. Ryan Gleason
3058 LS 3 Using stable isotope analysis to understand the trophic ecology of sharks in North Carolina
Student(s) Adrianna Davis **Grade 12** **Town** Ridgefield

Ridgefield Ridgefield High School Patrick Hughes
3073 LS 2 A survey comparing percent colonization of various AMF species in tropical soils at varying levels of regeneration
Student(s) Anna Landler **Grade 11** **Town** Ridgefield

Ridgefield Ridgefield High School Ryan Gleason
6009 PS 3 Modeling Permafrost Degradation to Estimate the Irreversibility of Runaway Climate Change
Student(s) Alexander Price **Grade 12** **Town** Ridgefield

Rocky Hill Rocky Hill High School Mr. DeBacco
6011 PS 3 Reusable Paper with Light-based Writing
Student(s) Zirui Hao **Grade 12** **Town** Rocky Hill

Sandy Hook Newtown High School Timothy DeJulio
3043 LS 3 The Effect of Mushroom Spores on Condensation
Student(s) Tristan Filiato **Grade 12** **Town** Newtown

Sandy Hook Newtown High School Tim DeJulio
6003 PS 3 The Effect of Dark Energy on Photons
Student(s) Brendan O'Hara **Grade 12** **Town** Newtown

Shelton Shelton High School Mary Clark
3001 LS 3 The Effect of Weather Patterns on Migraines
Student(s) Jules Cayer **Grade 9** **Town** Shelton

Shelton Shelton High School Mrs Mary Clark
6059 PS 2 Enhancing Latent Prints Visualized through Iodine Fuming with Magnetic Powders
Student(s) Sarah Gloria **Grade 11** **Town** Shelton

Shelton Shelton High School Lucia Dunham
6062 PS 3 Pumping Iron
Student(s) Spencer Hatfield **Grade 10** **Town** Shelton

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Shelton	Shelton High school	Christine McNamara	3542	LST	2	Eye Color Ability	Student(s)	Grade	Town
							Trista Oddo	9	Shelton
							Jaylee Zwaan	9	Shelton
Shelton	Shelton High School	Christine McNamara	3545	LST	2	Doggy Doorbell	Student(s)	Grade	Town
							Phoebe Rodia	10	Shelton
							Iris White	10	Shelton
							Brooke Weiss	9	Shelton
Shelton	Shelton High School	Charles Fowler	6096	PS	3	Snow: The Atmospheric Scrubbing Brush	Student(s)	Grade	Town
							Cora Welsh	10	Shelton
Shelton	Shelton High School	Jerry Kelley	6013	PS	3	Fire Hydrant Alert System	Student(s)	Grade	Town
							Kyle Young	10	Shelton
Shelton	Shelton Intermediate School	Mr. Rudman	4012	PT	3	The Stretchiness of slime	Student(s)	Grade	Town
							Kayla Bretan	8	Shelton
							Maddigan Leifer	8	Shelton
							Autumn Murphy	8	Shelton
Shelton	Shelton Intermediate School	Tina Genova	4006	PT	1	Lets Bounce	Student(s)	Grade	Town
							Alexa Civale	8	Shelton
							Isabella Silvis	8	Shelton
Shelton	Shelton Intermediate School	Ms. Genova	5518	P8	2	Sneaker Feature 2	Student(s)	Grade	Town
							Sofia Gasbarro	8	Shelton
Southington	J.A. DePaolo Middle School	Donna Shea	5019	P7	3	That's How The Cookie Crumbles	Student(s)	Grade	Town
							Madalyn McAuliffe	7	Southington
Southington	Southington Catholic School	Martina Shoukralla	5521	P8	3	Money Laundry	Student(s)	Grade	Town
							Ana Cawley	8	Southington
Southington	Southington Catholic School	martina shoukralla	5509	P8	3	INVISIBLE FORCE;; Creating Magnetic Fields	Student(s)	Grade	Town
							John Galvin	8	Southington
Stamford	Bi-Cultural Day School	Christopher Graseck	2026	L7	2	The Effect of Salt Water on Radish Growth	Student(s)	Grade	Town
							Daniel Goldberg	7	Stamford

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Stamford Bi-Cultural Day School Mr. Christopher Graseck

2017	L7	3	Comparing Organic and non organic seeds in filtered and non filtered water,
Student(s) Naomi Hanna			Grade 7 Town Stamford

Stamford Bi-Cultural Day School Christopher Graseck

1005	LT	1	Studying The Impact Of Acid Rain And Gutter Water On The Growth Of Three Plants
Student(s) Zachary Isaacs			Grade 7 Town Stamford
David Klein			Grade 7 Town Stamford

Stamford Bi-Cultural Day School Chris Graseck

2538	L8	2	The Impact of Antibacterial Soap on Daphnia Magna: Implications for the Environment
Student(s) Anna Lichtenberg			Grade 8 Town Stamford

Stamford Independent - The Harvey School, Katonah, NY Ms. Marcie Hajem

2507	L8	1	Sugars in foods: implications for Diabetics
Student(s) Wendy Lichtenberg			Grade 8 Town Stamford

Stamford The Catholic Academy of Stamford Mr. Hyland

5555	P8	3	Maglev Magnetics
Student(s) Andrew Buchkowski			Grade 8 Town Stamford

Stamford The Catholic Academy of Stamford Mr. Hyland

5010	P7	3	Battle of the Bubbles
Student(s) Eden Cheung			Grade 7 Town Stamford

Stamford The Catholic Academy of Stamford Mr. Hyland

5517	P8	3	Sensors and Robotics
Student(s) Lucas Duarte			Grade 8 Town Stamford

Stamford The Catholic Academy of Stamford Mr. Hyland

4010	PT	3	The Egg Drop
Student(s) Robert Grande			Grade 7 Town Stamford
Perry Kounavelis			Grade 7 Town Stamford

Stamford The Catholic Academy of Stamford Mr. Hyland

5533	P8	3	Optical Illusions Infinity Mirror
Student(s) Morgan Vossler			Grade 8 Town Stamford

Stamford The Catholic Academy of Stamford Mr. Hyland

5536	P8	3	How Do Airplanes Fly?: Bernoulli's Principle
Student(s) Sierra Wood			Grade 8 Town Stamford

Storrs E.O. Smith High School Cheryl Granger

6006	PS	3	Finding the Ideal Baseball Swing Path through Calculus and Physics
Student(s) Alexander Chandy			Grade 11 Town Storrs

Stratford St. Mark School Mrs. Lynn Olins

2032	L7	2	Don't Rain on my Radish (How does acid rain affect the growth of radishes?)
Student(s) Skyler Johansen			Grade 7 Town Stratford

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Stratford St. Mark School Lynn Olins
5561 P8 2 Stealthy Shapes
Student(s) Michael LaMonica IV **Grade 8** **Town** Stratford

Stratford St. Mark School Mrs. Linn Olins
5032 P7 3 Rust-Acidity (How do different levels of acid rain affect some kinds of iron?)
Student(s) Elizabeth Long **Grade 7** **Town** Milford

Stratford St. Mark School Mrs. Olins
5022 P7 3 Dirty Composition
Student(s) John Pastorok **Grade 7** **Town** Stratford

Stratford St. Mark School Mrs. Olins
5513 P8 3 Lights, Camera, Refraction
Student(s) Julia Sciallo **Grade 8** **Town** Stratford

Stratford St. Mark School Mrs. Olins
5540 P8 1 Are you a 'fan' of wind turbines?
Student(s) Kaitlyn Szczepanski **Grade 8** **Town** Stratford

Suffield Suffield High School Mitch Charkiewicz
3021 LS 2 Naturally Enhancing Plants' Yield and Growth Rate
Student(s) John Dion **Grade 11** **Town** Suffield

Suffield Suffield High School Mitch Charkiewicz
3507 LST 3 The Application of Magnetotactic Bacteria for the Efficient Production of Energy
Student(s) Ekaterina Fraser **Grade 11** **Town** Suffield
Shreedula Balakrishnan **Grade 11** **Town** Suffield

Suffield Suffield High School Mitchell Charkiewicz
3502 LST 3 The Effects Sodium Chloride (Road Salt) has on the Surrounding Environment When Used as an Ice Melting Agent.
Student(s) Madison Gadowski **Grade 11** **Town** West Suffield
Jessica Wessner **Grade 11** **Town** West Suffield

Suffield Suffield High School Mitch Charkiewicz
3513 LST 3 Saving the Honey Bee: Designing a Revolutionary Pollen Mineral Analysis Kit for Beekeepers.
Student(s) Joseph Gleason **Grade 12** **Town** West Suffield
Samatar Wehelie **Grade 12** **Town** Suffield

Suffield Suffield High School Mitchell Charkiewicz
6089 PS 3 The Anti-Overdose Pill Bottle Stemming the Opiod Epidemic
Student(s) Ziad Hassan **Grade 11** **Town** Suffield

Suffield Suffield High School Mitchell Charkiewicz
6060 PS 3 A Novel Health Monitoring System
Student(s) Akshita Jindal **Grade 9** **Town** Suffield

Suffield Suffield High School Mitchell Charkiewicz
3099 LS 3 The relationship between altitude and the incidence of skin cancer
Student(s) Laila Lawson **Grade 9** **Town** West Suffield

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Suffield Suffield High School Mitchell Charkiewicz
3008 LS 3 The Effects of Videos Games On Problem Solving Skills
Student(s) Leroy Lawson **Grade** 11 **Town** West Suffield

Suffield Suffield High School Mitchell Charkiewicz
6002 PS 3 Unforeseen Impacts of Cosmic Radiation on the Species of Earth
Student(s) SreeKeerthi ManurSreekantaMurthyGari **Grade** 9 **Town** Suffield

Suffield Suffield High School Mitchell Charkiewicz
3110 LS 2 New Findings: Optimal Temperature for Quail Egg Production as a Function of Ambient Temperature
Student(s) Robert Mueller **Grade** 12 **Town** West Suffield

Suffield Suffield High School Mitch Charkiewicz
3533 LST 3 The applying the understanding of running for the improvement of runners.
Student(s) Charles Rose **Grade** 10 **Town** Suffield
Monica van Ginkel **Grade** 10 **Town** Suffield

Suffield Suffield High School Mitchell Charkiewicz
3071 LS 3 A Novel Approach To Holistic Medicine For Dog Allergies
Student(s) Lizbeth Serrano **Grade** 11 **Town** Hartford

Suffield Suffield High School Mitchell Charkiewicz
6056 PS 3 Stopping an allergic reaction before it starts: A small mass spectrometer to detect peanuts within foods for those with
Student(s) Zachariah Service **Grade** 12 **Town** Suffield

Suffield Suffield High School Mitchell Charkiewicz
3504 LST 3 Astrology in Pop Culture and history. Is it accurate?
Student(s) Abigail Sperrazza **Grade** 10 **Town** Suffield
Jenna Uzdarwin **Grade** 10 **Town** Suffield

Suffield Suffield High School Mr. Charkiewicz
3029 LS 2 How Water Chemistry Varies Spatially Across Congamond Lake
Student(s) Brooke Tillotson **Grade** 11 **Town** Windsor Locks

Suffield Suffield High School Mitchell Charkiewicz
3091 LS 3 Plant Growth Using Vitamin Induced Water
Student(s) Aidan Werenski **Grade** 11 **Town** Suffield

Suffield Suffield High School Mitchell Charkiewicz
3529 LST 2 The Impact of Physical Activity on Human Reaction Time.
Student(s) Bruce Wilson **Grade** 11 **Town** Suffield
Kyle Englander **Grade** 11 **Town** Suffield
Michael Sattan **Grade** 11 **Town** Suffield

Suffield Suffield Middle School Mitchell Charkiewicz
4001 PT 3 Creating Electricity using Gravity
Student(s) John-Henry Burke **Grade** 8 **Town** Suffield
Alexander Litvak **Grade** 8 **Town** Suffield

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Suffield Suffield Middle School Mr. Mitchell Charkiewicz

2502 L8 1 The Effect of Musicianship to Speed of Learning Languages

Student(s) Isabella Jiang **Grade 8** **Town** Suffield

Suffield Suffield Middle School Mr Mitch Charkiewicz

4019 PT 3 Converting Sound Energy into an Electrical Energy

Student(s) Ayush Mehta **Grade 8** **Town** Suffield

Cole Cutler **Grade 8** **Town** Suffield

Jack Shanks **Grade 8** **Town** Suffield

Suffield Suffield Middle School Mr. Mitch Charkiewicz

4013 PT 3 How does temperature affect crystal growth?

Student(s) Aarya Vasantlal **Grade 8** **Town** Suffield

Avie Vasantlal **Grade 8** **Town** Suffield

Trumbull Christian Heritage School Daniel Cote

5531 P8 1 D.I.Y. Hovercraft: Lift and Propulsion

Student(s) Maxwell Barbagallo **Grade 8** **Town** Sandy Hook

Trumbull Christian Heritage School Daniel Cote

6085 PS 2 Field Testing for Practical Application of OER Catalyst Nickel-Iron Oxide in Extraterrestrial and Underwater Areas

Student(s) Daniel Colgate **Grade 11** **Town** Bridgeport

Trumbull Christian Heritage School Daniel Cote

6020 PS 3 The Design of a Self-Funding Heating System

Student(s) Miles Meade **Grade 11** **Town** Shelton

Trumbull Christian Heritage School Theresa Miller

5510 P8 1 Aqua-Safe: Helping the World, One Bucket at a Time

Student(s) Alec Mota **Grade 8** **Town** Derby

Trumbull Christian Heritage School Daniel Cote

5516 P8 2 The Effect of Salt on the Power Output of a Microbial Fuel Cell

Student(s) Natania Muriel **Grade 8** **Town** Shelton

Trumbull Christian Heritage School Daniel Cote

6054 PS 3 Carbon Emission-Free Power Generation Using Wave Energy and a Robust Generator

Student(s) Ranita Muriel **Grade 11** **Town** Shelton

Trumbull Christian Heritage School Daniel Cote

5549 P8 3 The Effect of Temperature on Lift Decay in Helium Balloons

Student(s) Nathan Nagel **Grade 8** **Town** Trumbull

Trumbull Christian Heritage School Daniel Cote

6087 PS 2 The Effectiveness of Different Media of Air Gap Hacking Over Distance

Student(s) William Rojas **Grade 11** **Town** Easton

Trumbull St. Joseph High School Shannon Calvert

6034 PS 3 Measuring Stellar Parallax of 61 Cygni

Student(s) James Bove **Grade 12** **Town** Trumbull

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Trumbull Trumbull High School Steffanie Elkins
 3094 LS 3 Detecting Genetically Modified Foods
Student(s) Evani Dalal **Grade** 10 **Town** Trumbull

Trumbull Trumbull High School Steffanie Elkins
 3050 LS 3 The effect of outside life on school life.
Student(s) Howard Qian **Grade** 10 **Town** Trumbull

Trumbull Trumbull High School Steffanie Elkins
 6100 PS 3 Impact of Submerged Barrier Resistance on Internal Waves
Student(s) Arnav Srivastava **Grade** 11 **Town** Trumbull

Wallingford Choate Rosemary Hall Richard Kyung
 6067 PS 3 Noise Removal Analysis Using Proposed LPF(Low Pass Filter) and Windows
Student(s) Se Ri Lee **Grade** 11 **Town** Wallingford

Waterbury Our Lady of Mt. Carmel School Tricia Ann Vertuccio
 1010 LT 2 Will It Preserve?
Student(s) Markela Karameta **Grade** 8 **Town** Waterbury
 Sonila Pasholi **Grade** 8 **Town** Waterbury

Waterbury Our Lady of Mt. Carmel School Tricia Ann Vertuccio
 4003 PT 3 Battery Breakdown
Student(s) Logan Pilla **Grade** 7 **Town** Waterbury
 Seth Glinsky **Grade** 7 **Town** Waterbury

Waterford Waterford High School Michael O'Connor
 3096 LS 1 Development of a Novel Copepod-Based Mosquito Ovitrap
Student(s) Sophie Wang **Grade** 12 **Town** Waterford

West Hartford Hebrew High School of New England Zachary Towne
 3020 LS 2 The Effect of Coffee Extracts on Viable Cells within Staphylococcus Epidermidis Biofilm Colonies
Student(s) Batya Koenigsberg **Grade** 11 **Town** New Haven

West Hartford King Philip Middle School Robert Felekey
 4023 PT 3 Environmental monitoring robot that uses temperature and ammonia level sensors to measure the environment in the area around the robot.
Student(s) Alexander Belsham **Grade** 8 **Town** West Hartford
 Andrew Belsham **Grade** 8 **Town** West Hartford

West Hartford King Philip Middle School Robert Felekey
 5537 P8 3 The search for a fuel-efficient jetliner: Testing three airfoils in a wind tunnel.
Student(s) Andrew Sauer **Grade** 8 **Town** West Hartford

West Hartford King Philip Middle School Robert Felekey
 5512 P8 1 Slip Hazard Alarm Robot H2OhNoBot
Student(s) Theodore Zhang **Grade** 8 **Town** West Hartford

West Hartford St. Brigid - St. Augustine Partnership School Donald Fay
 2004 L7 3 How do acids and bases affect enzymes ?
Student(s) Miranda Estrada **Grade** 7 **Town** Hartford

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West Hartford St. Brigid - St. Augustine Partnership School Mr.Fay
2007 L7 3 Biomechanics of Dance
Student(s) Faith Saunders **Grade 7** **Town** Hartford

West Hartford St. Brigid - St. Augustine Partnership School dfay@stbstapartnership.eduk13.
1011 LT 2 Music vs. Mind: Music affects the Brain
Student(s) Sejmora Thomas **Grade 7** **Town** Bloomfield
Victoria Mealha **Grade 7** **Town** Hartford

West Hartford St. Timothy Middle School Danielle Locke
5002 P7 2 Pineapple Punch
Student(s) Thomas Baldini **Grade 7** **Town** West Hartford

West Hartford St. Timothy Middle School Mrs. Locke
5511 P8 1 Don't Rock The Boat
Student(s) Brooke Barry **Grade 8** **Town** West Hartford

West Hartford St. Timothy Middle School Danielle Locke
4011 PT 2 Surviving the Cold!
Student(s) Connor Dainiak **Grade 7** **Town** West Hartford
Griffin Oshaughnessy **Grade 7** **Town** West Hartford

West Hartford St. Timothy Middle School Danielle Locke
2528 L8 1 Saving Crops from Cold Snaps – The Effect of Gamma-Aminobutyric Acid (GABA) on Freeze Tolerance in Wheatgrass
Student(s) Grace Flynn **Grade 8** **Town** West Hartford

Weston Weston Middle School Melanie Welsh
2518 L8 2 How Far has Humanity Come from Instinct?
Student(s) Ava Cho **Grade 8** **Town** Weston

Weston Weston Middle School Melanie Welsh
2523 L8 3 How are different diets more or less effective for weight loss and lowering the risk of heart disease?
Student(s) Luca O'Neil **Grade 8** **Town** Weston

Weston Weston Middle School Melanie Welsh
1008 LT 3 Insecticide or Suicide? Creating and Comparing Natural and Unnatural Insecticides
Student(s) Nicole Satanovsky **Grade 8** **Town** Weston
Konstantina Gotouhidis **Grade 8** **Town** Weston

Weston Weston Middle School Melanie Welsh
1004 LT 1 How Can Climate Change Affect the Rate of Evolution on Baker's Yeast's
Student(s) Lecia Sun **Grade 8** **Town** Weston
Brynne McGee **Grade 8** **Town** Weston

Westport Staples High School Karen Thompson
6081 PS 2 The Effect of EsMCsu1, from Eutrema Salsugineum, on Transformed Arabidopsis Related to Drought Resistance
Student(s) Juliana Hopper **Grade 12** **Town** Westport

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Westport Staples High School Karen Thompson
3062 LS 2 Using a Machine Learning Algorithm to Predict if a Breast Tumor is Malignant or Benign
Student(s) Aniruddha Murali **Grade** 11 **Town** Westport

Westport Staples High School Karen Thompson
3104 LS 3 Study on the Effect of Weather Patterns and Events on the Nocturnal Migration of Birds
Student(s) Jory Teltser **Grade** 11 **Town** Westport

Westport Staples High School Karen Thompson
6065 PS 2 The Effect of MN250 on the Removal of Sulfonamide Antibiotics in Wastewater
Student(s) Joshua Zhang **Grade** 11 **Town** Westport

Wilton Middlebrook School Debbie Mallozi
2533 L8 2 Metabolic Touch
Student(s) Krithika Natarajan **Grade** 8 **Town** Wilton

Wilton Middlebrook School Kendra Norman
5003 P7 2 Power Walking with Piezoelectricity
Student(s) Sebastien Shaw **Grade** 7 **Town** Wilton

Wilton Middlebrook School Paige Randall
5017 P7 1 The Buzzing Eye - Helping The Blind
(school submitted title - Supersonic Blind Helper)
Student(s) Varun Vadhera **Grade** 7 **Town** Wilton

Wilton Middlebrook School Jessica Garcia
5558 P8 2 Mirror-cle Solar Panels
Student(s) Jessica Wu **Grade** 8 **Town** Wilton

Windsor Academy of Aerospace and Engineering Dr. Lili Aramli
3548 LST 3 Comparative Analysis of the Effects of Different Dietary Supplements on Breast Cancer Cells
Student(s) Anthony Antony **Grade** 11 **Town** Farmington
Jonathan Spafford **Grade** 11 **Town** Windsor

Windsor Academy of Aerospace and Engineering Dr. Bellinger
6501 PST 1 Effect of Experimental Parameters on Forming Prince Rupert's Drops for Maximum Strength and Toughness.
Student(s) Srikar Godilla **Grade** 11 **Town** Newington
Cristian Rodriguez **Grade** 11 **Town** East Hartford

Windsor Academy of Aerospace and Engineering Michelle Bellinger
6528 PST 2 Effect of the Size, Shape and Spatial Distribution of the Second Phase Polymer in a 3D Printed Polymer/Polymer Composite on the Mechanical Properties of the Material.
Student(s) Gianna Guzzo **Grade** 10 **Town** Suffield
Andrea Lacunza **Grade** 10 **Town** Avon

Windsor Academy of Aerospace and Engineering Dr. Lillian Aramli
3055 LS 3 The Effect of Biotin (Vitamin H) on Regeneration in Planarian
Student(s) Ondrea Kerr **Grade** 11 **Town** Bloomfield

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Windsor Academy of Aerospace and Engineering Lili Aramli
3107 LS 3 The Effect of Overexpression of CREB-Binding Protein (CBP) on Gene Expression of Tumor Suppressor p53 in Mus musculus Breast Carcinoma (BRCA) Cells
Student(s) Rishika Maitra **Grade** 12 **Town** Middletown

Windsor Academy of Aerospace and Engineering dr. Bellinger
6533 PST 2 Combinations of Polyethylene Glycol and Silica Nanoparticles as a Dilatant on Shock Absorption and Unequal Shear Transfer Rate
Student(s) Nicolas McMahon **Grade** 10 **Town** Windsor
Emily Ngo **Grade** 10 **Town** South Windsor

Windsor Academy of Aerospace and Engineering Lilli Aramli
3025 LS 3 The Effect of Dopamine on Zebrafish Embryo Social and Biological Development
Student(s) Rebecca Nowinski **Grade** 12 **Town** Tolland

Windsor Academy of Aerospace and Engineering Dr. Bellinger
6516 PST 1 The Effects of Positioning of Micro Vertical Axis Wind Turbines in a Network on Efficiency and Power Output
Student(s) Chris Rinaldi **Grade** 11 **Town** Enfield
Jean Pasato **Grade** 11 **Town** Middletown
Vishakh Talanki **Grade** 11 **Town** South Windsor

Windsor Academy of Aerospace and Engineering Dr. Aramli
3518 LST 3 The Intensity of Marine Bioluminescent Organisms in Manipulated Environments
Student(s) Tanu Singh **Grade** 12 **Town** South Windsor
Dharini Jasti **Grade** 12 **Town** Ellington

Windsor Academy of Aerospace and Engineering Dr. Michelle Bellinger
6066 PS 2 Undulated Leading-Edge Airfoils in Low to Medium Reynolds Number Regime
Student(s) Keshav Vedula **Grade** 12 **Town** Windsor

Windsor Greater Hartford Academy of Math and Science Dr. Lili Aramli
3523 LST 2 The Effect of Turmeric on the Gene Expression of Breast Cancer Cells in Mice
Student(s) Malavika Madan **Grade** 12 **Town** South Windsor
Rahul Nimmagadda **Grade** 12 **Town** Avon

Windsor Greater Hartford Academy of Math and Science Dr. Bellinger
3023 LS 3 Human-Human Interface: The Effect of Using Different Nerves on Involuntary Movement.
Student(s) Sreenidhi Nair **Grade** 12 **Town** West Hartford

Windsor Greater Hartford Academy of Math and Science Lili Aramli
3007 LS 3 A Metanalysis of Single Nucleotide Polymorphisms in the BRCA1 and BRCA2 Genes of Breast Cancer Patients
Student(s) Alexandra Smith **Grade** 11 **Town** West Suffield

Windsor Greater Hartford Academy of Math and Science Michelle Bellinger
6517 PST 2 Effect of Adding Reclaimed Polylactic Acid (PLA) to Virgin PLA on the Mechanical Properties
Student(s) Michael Stefano **Grade** 12 **Town** Wethersfield
Jacob Manente **Grade** 12 **Town** Southington

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Windsor Greater Hartford Academy of Math and Science Michelle Bellinger

6530	PST	1	Effect of Increasing the Poly(ethylene) Oxide in Bombyx mori Silk Fibroin on Mechanical Properties of the Polymer Blend Systems
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Student(s)	Alexa Wilson	Grade 12	Town Rocky Hill
	Preksha Gupta	Grade 12	Town Rocky Hill
	Sana Kasmani	Grade 12	Town Rocky Hill

Windsor Madina Academy Zaide Ibic

2009	L7	1	An Easy and Economic Way of Filtering Salt Water
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Student(s)	Abdulmalik Ajdinoski	Grade 7	Town Windsor Locks
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Windsor Madina Academy Zaide Ibic

6518	PST	2	Using Wasted Heat from Hot Showers to Recycle Energy
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Student(s)	Ahmad Mohammed	Grade 9	Town Windsor
	Muaz Sharaf	Grade 9	Town Windsor Lock
	Samir Khan	Grade 9	Town Wethersfield

Windsor Madina Academy Zaide Ibic

3086	LS	3	The Effect of the Consumption of Organic vs. Non-Organic Lactuca Sativa on the Growth and Health of Cynthia Caterpillars
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Student(s)	Ruqayyah Paine	Grade 10	Town Terryville
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Windsor Madina Academy Zaide Ibic

1009	LT	1	Investigating short-term effect of different video games on the body.
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Student(s)	Ahmad Zoghol	Grade 7	Town Enfield
	Amer Kabatilo	Grade 7	Town Windsor
	Zain Kabatilo	Grade 7	Town Windsor

Windsor Madina Academy Zaide Madina

6523	PST	2	Harnessing ocean wave kinetic energy in an eco-friendly way to generate electricity applying Faraday's law of induction
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Student(s)	Al-Yaman Zoghol	Grade 9	Town Enfield
	Ahmed Zeinalabdin	Grade 9	Town Windsor

Windsor St. Gabriel School Ms Meg Rosa

5519	P8	2	Capillary Action
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Student(s)	Timothy Paradise	Grade 8	Town West hartford
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Windsor St. Gabriel School Margaret Rosa

2539	L8	3	Erosion Commotion
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Student(s)	Emily Quinn	Grade 8	Town Windsor
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Windsor St. Gabriel School Miss Meg Rosa

5016	P7	3	Marble Roller Coaster How Much Height to Loop the Loop?
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Student(s)	Michael Sponzo	Grade 7	Town Windsor
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Windsor St. Gabriel School Meg Rosa

5029	P7	2	How Safe Is Your Water?
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Student(s)	Katherine Wilkos	Grade 7	Town Windsor
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Windsor The Loomis Chaffee School Richard Kyung
6071 PS 1 A Study on the Alternative Space Filling Curve
Student(s) **Jae Hyung Lee** Grade 10 Town Windsor

Windsor The Loomis Chaffee School Koby Osei-Mensah
3005 LS 1 Combating Food Deserts with Bean Urban Agriculture
Student(s) **Julianna Lee** Grade 11 Town Windsor

Windsor The Loomis Chaffee School Koby Osei-Mensah
6018 PS 3 The Consonance of Alternative Tuning Systems
Student(s) **Aresh Pourkavoos** Grade 9 Town Avon

Woodbridge Amity Regional High School Deborah Day
6102 PS 3 The effect of different biochars on phosphate retention
Student(s) **Talia Barry** Grade 11 Town Orange

Woodbridge Amity Regional High School Deborah Day
3085 LS 2 Desmosterol Mediated Anti-inflammatory Effects in Atherogenesis are Linked to Inflammasome Activation
Student(s) **Agrani Dixit** Grade 12 Town Woodbridge

Woodbridge Amity Regional High School Catherine Piscitelli
6064 PS 2 Determining How Concentration and Solution Type Govern Multi-Walled Carbon Nanotube (MWCNTs) Aggregation Behavior
Student(s) **Rosie Du** Grade 11 Town New Haven

Woodbridge Amity Regional High School Catherine Piscitelli
3067 LS 3 The Effect of Overexpression of Mir-24 on Cell Mortality
Student(s) **Ulada Dubovik** Grade 12 Town Orange

Woodbridge Amity Regional High School Catherine Piscitelli
6047 PS 1 The Impacts of pH on Ethene Degradation and Growth of Ethenotrophs
Student(s) **Jacob Feuerstein** Grade 11 Town Woodbridge

Woodbridge Amity Regional High School Deborah Day
6010 PS 2 Janus Bottlebrush Copolymers: A Universal Strategy Enabling Access to Ultra-Small Phase Separation
Student(s) **Vince Li** Grade 12 Town Orange

Woodbridge Amity Regional High School Deborah Day
3090 LS 2 The Effect of Different Melanoma Treatments on Surface Protein Expression of Innate Immune System Cells
Student(s) **Tracy Lu** Grade 10 Town Woodbridge

Woodbridge Amity Regional High School Deborah Day
3082 LS 2 Investigating the Role of Sodium Chloride on Pathogenic B Cell Function in Multiple Sclerosis
Student(s) **Ningxin Luo** Grade 10 Town Orange

Woodbridge Amity Regional High School Mrs. Day
6057 PS 2 The Effectiveness of Ceramic Membranes with a Manganese Oxide Coating in Filtering Dyes from Industrial Wastewater
Student(s) **Ella Marin** Grade 10 Town Woodbridge

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Woodbridge Amity Regional High School Deborah Day

3011	LS	2	The effects of multiple blood meals and apoptosis on midgut basal lamina integrity in Aedes aegypti mosquitoes
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Student(s) Ameya Menta **Grade** 10 **Town** Orange

Woodbridge Amity Regional High School Deborah Day

6037	PS	3	The Effect of Ski-Boot Tightness on Ankle-Flexion Angle
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Student(s) Henry Molot **Grade** 12 **Town** Woodbridge

Woodbridge Amity Regional High School Deborah Day

3111	LS	2	The Effect of Sea Level Rise and Salt Marsh Change on the Population of Uca Pugnax
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Student(s) Natalie Prinz **Grade** 10 **Town** Bethany

Woodbridge Amity Regional High School Deborah Day

6044	PS	2	Assessment of Cation Competition on the Effectiveness of Paramagnetic Lanthanides as Shift Agents for Sodium-23 Magnetic Resonance Spectroscopy
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Student(s) Keri Tenerowicz **Grade** 11 **Town** Bethany

Woodbridge Amity Regional High School Deborah Day

3074	LS	2	Diagnosis of breast cancer based on native tissue fluorescence using wide-field multispectral fluorescence imaging
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Student(s) Anthony Tom **Grade** 11 **Town** Orange

Woodbridge Amity Regional High School Deborah Day

6099	PS	2	Sinkhole detection using Wireless Sensor Networks and Structural Health Monitoring
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Student(s) Sophia Wang **Grade** 10 **Town** Woodbridge

Woodbridge Amity Regional High School Deborah Day

6095	PS	2	Enhancing Cybersecurity by Developing a User Authentication System Using Keystroke Dynamics
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Student(s) Kate Yuan **Grade** 11 **Town** Woodbridge