



Connecticut Science & Engineering Fair

Quinnipiac University

March 10 - 14, 2015

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]	Student(s)	Grade	Town
Avon	Avon High School	Andrea Galuska	3042	LS	2	Investigation of Osteoclast Activity as an Explanation for Lack of Bone Maturation in Tissue Implantation	Ben Lerner	Grade 12	Avon
Avon	Avon High School	Galuska	6025	PS	3	Program your Diet	Nivedha Natchiappan	Grade 10	Avon
Avon	Talcott Mountain Academy	Alyson Tockstein	5522	P8	2	Thermodynamics of the Stirling Cycle: Testing the Effects of the Relative Temperature Difference on Stirling Engine Output	Varun Aggarwal	Grade 8	South Glastonbury
Avon	Talcott Mountain Academy	Alyson Tockstein	2005	L7	2	Endomycorrhizal and Ectomycorrhizal Fungi and the Effect on Plant Communication Through the Common Mycelial Network	Rayna Bidwell	Grade 7	Ellington
Avon	Talcott Mountain Academy	Alyson Tockstein	2529	L8	2	Indirect measurement of the pliability of vocal folds and singer comfort after direct steam inhalation.	Tasha Casey	Grade 8	Avon
Avon	Talcott Mountain Academy	Alyson Tockstein	2026	L7	1	Killing Blackspot: An Organic Struggle	Julia Hoffman	Grade 7	Windsor
Avon	Talcott Mountain Academy	Ms. Tockstien	2537	L8	2	The Antimicrobial Properties of Papaya	Zachary Waskowicz	Grade 8	Southington
Avon	Talcott Mountain Academy	Alyson Tockstein	2039	L7	1	Novel Bioluminescent Display using Aliivibrio fischeri for efficiency and low cost	Yusuf Zaidi	Grade 7	Avon
Bethany	Amity Reg Middle School, Bethany Campus	Kevin Berean	4029	PT	2	Incorporating the Flutter Effect in Flags to Produce Energy	Thomas Livesay Felix Liu	Grade 8 Grade 8	Woodbridge Woodbridge
Bethany	Amity Reg Middle School, Bethany Campus	Kevin Berean	5504	P8	3	Green Energy Ferris Wheel	Isabel Salazar	Grade 8	Woodbridge

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Bethany Amity Reg Middle School, Bethany Campus Kevin Berean

4020 PT 3 Peer Pressure and Robots

Student(s) Romulus Sottile **Grade 8** **Town** Woodbridge
Aman Thombre **Grade 8** **Town** Woodbridge

Bethany Amity Reg Middle School, Bethany Campus Mr. Kevin Berean

4033 PT 1 BabyBot: Creating a Robot to Soothe a Crying Infant

Student(s) Neha Sudhir **Grade 8** **Town** Woodbridge
Rosie Du **Grade 8** **Town** New Haven
Allison Fischman **Grade 8** **Town** Woodbridge

Bethany Amity Reg Middle School, Bethany Campus Kevin Berean

4017 PT 1 The Sensing Cane

Student(s) Kate Yuan **Grade 8** **Town** Woodbridge
Catalina Betancur **Grade 8** **Town** Woodbridge

Bethel Bethel High School Mr. Turek

6061 PS 2 The Effect of Sunspot Number on Radio Propagation

Student(s) Reeya Bhavsar **Grade 12** **Town** Bethel

Bethel Bethel High School Mr. Turek

6050 PS 2 Using wastewater to reclaim energy

Student(s) Victoria Palmer **Grade 11** **Town** Bethel

Bethel Bethel High School MR. Turek

6063 PS 2 Testing the Effectiveness of an improved French Trench.

Student(s) Caitlyn Peterson **Grade 12** **Town** Bethel

Bethel St. Mary School Mrs McDonald

2538 L8 3 The Effect of Household Acids and Bases on the pH of dirt.

Student(s) Rory Daly **Grade 8** **Town** Brookfield

Bethel St. Mary School Mrs. McDonald

2531 L8 3 Water Types and Plant Growth

Student(s) Jake Drury **Grade 8** **Town** Redding

Bethel St. Mary School Kate McDonald

2528 L8 2 Electrolyte Challenge

Student(s) Mackenzy Garden **Grade 8** **Town** Danbury

Bethel St. Mary School Mrs. McDonald

5043 P7 2 A Matter of Facts: Designing a Math App to Help Kids Learn Their Math Facts

Student(s) Kevin Legnard **Grade 7** **Town** Bethel

Bethel St. Mary School Mrs. Kate McDonald

5540 P8 2 How Does the pH Level of Liquids Used to Take Medication Pills Affect Dissolvability?

Student(s) Emily Marcone **Grade 8** **Town** Danbury

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Bethel St. Mary School Mrs McDonald
5048 P7 3 Let's Beet Slippery Roads
Student(s) Valerie Quish **Grade 7** **Town Bethel**

Bethel St. Mary School Mrs. Kate McDonald
2523 L8 3 Not Organic? Don't Panic!
Student(s) Angela Saidman **Grade 8** **Town Bethel**

Bethel St. Mary School Mrs. McDonald
5035 P7 1 Keepin' Warm
Student(s) Madeline Suarez **Grade 7** **Town Bethel**

Bozrah Fields Memorial School Evelyn Brown
5507 P8 1 Music Metrics and Fractals: Analyzing Different Genres of Digitized Music to Identify Input Metrics for Programming Fractal Representations of the Music with Mathematica
Student(s) Genevieve Buckridge **Grade 8** **Town Bozrah**

Bozrah Fields Memorial School Mrs. Evelyn Brown
5032 P7 2 Maximizing the Energy Output of a Wind Turbine
Student(s) Dravyn Okoney **Grade 7** **Town Bozrah**

Bozrah Fields Memorial School Evelyn Brown
5502 P8 1 Water Filtration and Flocculation Methods
Student(s) Rebecca Ramthun **Grade 8** **Town Bozrah**

Bozrah Fields Memorial School Mrs. Brown
5055 P7 2 How Do Environmental Conditions Affect the Performance of Duct Tape?
Student(s) Tori Smith **Grade 7** **Town Bozrah**

Bozrah Fields Memorial School Mrs. E. Brown
5023 P7 1 Which Variables Affect The Flight Of A Rocket?
Student(s) Brendan Toth **Grade 7** **Town Bozrah**

Bozrah Fields Memorial School Evelyn Brown
5515 P8 2 Measurement of Tensile Strength of Various Wet & Dry Woods
Student(s) Abigail Tracy **Grade 8** **Town Gilman**

Bridgeport Barnum School David Nuzzo
2040 L7 3 Hydroponics
Student(s) Wilson Velez **Grade 7** **Town Bridgeport**

Bridgeport Black Rock School Helena Coatsworth
2507 L8 3 Aqua-Life
Student(s) Benjamin Clark **Grade 8** **Town Bridgeport**

Bridgeport Blackham School Ms. O'Neil
5505 P8 3 Does temperature matter?
Student(s) Malik Williams **Grade 8** **Town Bridgeport**

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Bridgeport Bridgeport Regional Aquaculture School Mr. Kirk Shadle

3052 LS 1 The Analysis of Clay Flocculation's Effect on the Benthic Zone Used as a Mitigation Technique for Harmful Algal Blooms (HABs)

Student(s) Julia Ennis **Grade** 12 **Town** Fairfield

Bridgeport Bridgeport Regional Aquaculture School Mr. Shadle

3118 LS 1 Development of Non-toxic Photostabilized Phycoerythrin for Application in Dye Sensitized Solar Cells

Student(s) Eunsun Hong **Grade** 12 **Town** shelton

Bridgeport Bridgeport Regional Aquaculture School Mr. Kirk Shadle

3073 LS 1 Determining the Effect of Biofouling on a Restocking System for Homarus americanus

Student(s) Shana Isidoro **Grade** 12 **Town** Monroe

Bridgeport Bridgeport Regional Aquaculture School Mr. Shadle

6006 PS 2 Low Temperature Thermal Cracking of High-Density Polyethylene via Zeolite and Pillared Clay Catalyts

Student(s) Stephen Jepsen **Grade** 12 **Town** Stratford

Bridgeport Bridgeport Regional Aquaculture School Mr. Kirk P. Shadle

3040 LS 1 Utilizing Piscivorous Birds as Low-Impact Primary Biological Indicators

Student(s) Sophie Kay **Grade** 12 **Town** Fairfield

Bridgeport Bridgeport Regional Aquaculture School Kirk Shadle

6011 PS 2 Application of the near-IR Luminescence Property of Egyptian Blue and related Alkaline Earth Metal Copper Silicates (ACuSi4O10, ACuSi2O6, ACuSi2O7) in Infrared Technologies

Student(s) Daniel Munteanu **Grade** 12 **Town** Fairfield

Bridgeport Bridgeport Regional Aquaculture School Kirk Shadle

3032 LS 1 Enhancing the Collagen Yield from Aurelia aurita through Bio Encapsulated Highly Saturated Fatty Acid Feed

Student(s) Marissa Prizio **Grade** 12 **Town** Milford

Bridgeport Bridgeport Regional Aquaculture School Mr. Shadle

6066 PS 1 Biochar Electrodes Incorporated with Cuprous Oxide Substrates to Optimize Solar Cells' Efficiency

Student(s) Nicolas Santandrea **Grade** 12 **Town** Fairfield

Bridgeport Central High School Mrs. Nnodum

3030 LS 3 The Effects of GMO vs Non-GMO Bananas on the Life Span of Fruit Flies

Student(s) Amy Siranula **Grade** 11 **Town** Bridgeport

Bridgeport Central Magnet High School Robert Pascarell

3074 LS 2 The Stroop Effect

Student(s) Toni-Lyn Turner **Grade** 9 **Town** Bridgeport

Bridgeport Classical Studies Magnet Academy Samantha Bookbinder

2008 L7 3 Can different categories of leaves contain similar tints

Student(s) Melissa Andrade **Grade** 7 **Town** Bridgeport

Bridgeport Fairchild Wheeler Magnet High School L. Ciocci

6042 PS 2 Biomimicry of Whale Fins

Student(s) Emilie Alber **Grade** 9 **Town** Milford

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Bridgeport Fairchild Wheeler Magnet High School Mr. Anthony

6060 PS 2 Hydrogen Fuel Cells: How Electrode Material Affects Them

Student(s) **Graham Bonnell** **Grade 11** **Town** Southport

Bridgeport Fairchild Wheeler Magnet High School Mr. Ryan Anthony

6079 PS 2 The Application of Sub-undulatory Locomotion Principles Utilized by Sub-carangiform Swimmers to Increase Submersible Efficiency

Student(s) **Anubhav Dhar** **Grade 10** **Town** Trumbull

Bridgeport Fairchild Wheeler Magnet High School L Ciocci

3086 LS 3 How Music Affects Concentration

Student(s) **Rhea Grant** **Grade 9** **Town** Milford

Bridgeport Fairchild Wheeler Magnet High School Mrs. Ciocci

3117 LS 2 Stroop Effect

Student(s) **Sabrina Keo** **Grade 11** **Town** Bridgeport

Bridgeport Fairchild Wheeler Magnet High School Mr. Ryan Anthony

6093 PS 3 How does the weight of a wind turbine's blade affect energy production?

Student(s) **Thomas Pond** **Grade 11** **Town** Fairfield

Bridgeport Fairchild Wheeler Magnet High School Mrs. Ciocci

6501 PST 3 "Are Your Eyes Playing Tricks on You?"

Student(s) **Danna Portillo-Serrano** **Grade 10** **Town** Bridgeport

Sydney Kmetz **Grade 10** **Town** Milford

Bridgeport Fairchild Wheeler Magnet High School L.Ciocci

3053 LS 2 The Efficiency of Bivalve Mollusk Filter Feeding in the Long Island Sound

Student(s) **Elijah Rodriguez** **Grade 9** **Town** Stratford

Bridgeport G.W. Johnson School Kaitlin Dinot

5021 P7 3 Rust A Bunch

Student(s) **Alejandro Ramos** **Grade 7** **Town** Bridgeport

Bridgeport High Horizons Magnet School Mrs. Scott-Thiam

5523 P8 3 Power Wind

Student(s) **Diego Garcia** **Grade 8** **Town** Bridgeport

Bridgeport Interdistrict Discovery Magnet School Janine Walsh

2007 L7 3 Do different sources of light affect the rate a plant transpires?

Student(s) **Joseph Everard** **Grade 7** **Town** Easton

Bridgeport Interdistrict Discovery Magnet School Janine Walsh

5018 P7 3 Heat Output

Student(s) **Manuel Figueroa** **Grade 7** **Town** Bridgeport

Bridgeport Jettie S. Tisdale School Mr. Bell

4031 PT 3 Radiation Stopper

Student(s) **Matthew Vásconez Gilces** **Grade 7** **Town** Bridgeport

Idaliz Acevedo **Grade 7** **Town** Bridgeport

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Bridgeport Multicultural Magnet School Mr. Walter Mayorga

5555	P8	2	Powerful Propellers
Student(s) Abigail Cloud			Grade 8 Town Bridgeport

Bridgeport Multicultural Magnet School Walter Mayorga

5535	P8	2	Thermoelectricity Phenomenon
Student(s) Elizabeth Silva			Grade 8 Town Bridgeport

Bridgeport Park City Magnet School Sarah Simone

5019	P7	2	Baking with Fantastic Flours
Student(s) Anne Ho			Grade 7 Town Bridgeport

Bridgeport Park City Prep Charter School Vicky Boudreau

2021	L7	3	Nothing but algae and duckweed
Student(s) Charlicea Azore			Grade 7 Town Bridgeport

Bridgeport Park City Prep Charter School Vicky Boudreau

2015	L7	3	Troublesome Turf
Student(s) Tasia Courts			Grade 7 Town Bridgeport

Bridgeport Park City Prep Charter School Mr. Jaekle

2543	L8	3	Which Side Are You On?
Student(s) Zaryah Gordon			Grade 8 Town Bridgeport

Bridgeport Park City Prep Charter School Vicky Boudreau

1019	LT	3	Pill Bugs On Mars?
Student(s) Saxton Kerr			Grade 7 Town Bridgeport
Tayquon Underhill			Grade 7 Town Bridgeport

Bridgeport Park City Prep Charter School Vicky Boudreau

4006	PT	3	Meltdown
Student(s) Julia Majewski			Grade 7 Town Bridgeport
Jade Williams			Grade 7 Town Bridgeport
Kayla Clark			Grade 7 Town Bridgeport

Bridgeport Park City Prep Charter School Vicky Boudreau

2038	L7	2	Smoking Wars
Student(s) Willow Marks			Grade 7 Town Bridgeport

Bridgeport Park City Prep Charter School Jonathan Jaekle

5518	P8	3	Strength Of An Electromagnet
Student(s) Jacob Tay			Grade 8 Town Bridgeport

Bridgeport Park City Prep Charter School Vicky Boudreau

5001	P7	2	BOBS (Baby on Board) System
Student(s) Johann Warren			Grade 7 Town Bridgeport

Bridgeport Park City Prep Charter School Mr. Johnathan Jaekle

5542	P8	3	Measuring The Amount of Acid in Vinegar By Using Titration
Student(s) Mario Williams			Grade 8 Town Bridgeport

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Bridgeport Read School Mr. Tharson

5034	P7	3	Wood Toughness
Student(s) Alexia Andrade			Grade 7 Town Bridgeport

Bristol St. Paul Catholic High School Mr Alberti

6076	PS	2	Novel Approches of Making Human to Robot Interaction Possible for the Handicapped.
Student(s) Kamila Krawczuk			Grade 9 Town New Britain

Broad Brook Homeschool - Masthay Melissa Masthay

6019	PS	3	Passive Solar Energy
Student(s) Jamie Masthay			Grade 9 Town Broad Brook

Cheshire Cheshire High School Casey King

3072	LS	1	Development of a Prescient Warning Model for Cholera Utilizing an Epdemiological Identification of Risk Factors
Student(s) Shangda Xu			Grade 11 Town Cheshire

Cheshire St. Bridget School Mrs. Michelle Carroll

2019	L7	1	The Stroop Effect
Student(s) Brendan Canning			Grade 7 Town Wallingford

Cheshire St. Bridget School Mrs. Carroll

2522	L8	3	Microwave Radiation
Student(s) Sadhana Sankar			Grade 8 Town Naugatuck

Danbury Immaculate High School Dennis Ames

6078	PS	3	Exoplanet Discovery: The Transit Method
Student(s) Nolan Ames			Grade 9 Town Danbury

Danbury Immaculate High School Mrs. Bridget Henry

3088	LS	1	Unprecedented Glycerol-Free Biodiesel Production using Enzyme Catalysis
Student(s) Martha Haddad			Grade 10 Town Danbury

Danbury St. Gregory the Great School Mrs. Fahey

4007	PT	2	Is density a quality?: Density Intensity
Student(s) Rodolph Antonios			Grade 8 Town Danbury
Jack Sorrentino			Grade 8 Town Danbury

Danbury St. Gregory the Great School Christine Fahey

5563	P8	2	Conduction Junction
Student(s) Frank Chieffalo			Grade 8 Town Danbury

Danbury St. Gregory the Great School Mrs. Fahey

5520	P8	3	The Heat is On
Student(s) Anthony Dascano			Grade 8 Town Danbury

Danbury St. Gregory the Great School Mrs. Christine Fahey

1004	LT	2	Vitamin H2Grow
Student(s) Kieran Doolabh			Grade 7 Town Danbury
Hunter Swaylik			Grade 7 Town Woodbury
Brendan Walsh			Grade 7 Town Danbury

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Danbury St. Gregory the Great School Christine Fahey

5011 P7 2 Let There Be Light!

Student(s) George Hyland **Grade 7** **Town** New Fairfield

Danbury St. Gregory the Great School Christine Fahey

5039 P7 3 Wrap the Apple Save the Apple

Student(s) Raechel Langan **Grade 7** **Town** Danbury

Danbury St. Gregory the Great School Mrs.Fahey

1026 LT 1 Got Gas?

Student(s) Royce Maxwell **Grade 8** **Town** Danbury
Bart Flaherty **Grade 8** **Town** New Fairfield
Ryan Niland **Grade 8** **Town** Brookfield

Danbury St. Gregory the Great School Mrs.Fahey

5017 P7 3 Foam Dissolving Methods

Student(s) Erik Stedman **Grade 7** **Town** New Milford

Danbury St. Joseph School Mrs.Reilly

4012 PT 2 What it takes to clear the loop.

Student(s) Michael Campisi **Grade 8** **Town** Danbury
Ismael Ricardo **Grade 8** **Town** Danbury

Danbury St. Joseph School Mrs. J. Reilly

1003 LT 2 Do you see what I see?

Student(s) Olivia Casino **Grade 7** **Town** Brewster
Brigid Gage **Grade 7** **Town** Danbury

Danbury St. Joseph School Mrs. Reilly

2006 L7 2 Water The Power of Life Hydroponics vs. Aquaponics

Student(s) Keelan Doherty **Grade 7** **Town** Danbury

Danbury St. Joseph School Mrs. Reilly

4002 PT 2 Temperature effects on a basketball

Student(s) Diego Echavarría **Grade 7** **Town** New Milford
Shayne Simmons **Grade 7** **Town** Danbury

Danbury St. Joseph School Jennifer Reilly

2502 L8 2 Toxic Chemicals Found In Detergents

Student(s) Shea Foye **Grade 8** **Town** Danbury

Danbury St. Joseph School Jennifer Reilly

5026 P7 1 The Power of Wind

Student(s) Sean Guiry **Grade 7** **Town** Danbury

Danbury St. Joseph School Jennifer Reilly

2513 L8 3 Which is the Most Effective Antacid?

Student(s) Jared Hewitt **Grade 8** **Town** Danbury

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Danbury St. Joseph School Mrs. Reilly
5054 P7 1 Development of a technique to detect explosive residue for use in avoiding terrorism threats.
Student(s) Bradley Kerr **Grade 7** **Town** Danbury

Danbury St. Joseph School Jennifer Reilly
5511 P8 3 What Materials can block a Wifi Signal
Student(s) Allen Riego de Dios **Grade 8** **Town** Danbury

Danbury St. Joseph School Mrs. Reilly
2506 L8 1 The Effect of Dextrose and Fructose on Daphnia.
Student(s) Daniel Villalona **Grade 8** **Town** Danbury

Danbury Westside Middle School Academy Jonathan Neuhausel
2514 L8 2 Contemporary Bioremediation
Student(s) Rishita Bandaru **Grade 8** **Town** Danbury

Danbury Westside Middle School Academy Jonathan Neuhausel
5506 P8 2 Effect of Blade Angle and Wind Angle on Rotation Speed of a Home-Built Wind Turbine
Student(s) Micah Chen **Grade 8** **Town** Danbury

Danbury Westside Middle School Academy Jonathan Neuhausel
5551 P8 1 UV-C Lighting As A Supplemental Method Of Preservation In Refrigerators To Reduce Energy Consumption
Student(s) Christopher Hwang **Grade 8** **Town** Danbury

Danbury Westside Middle School Academy Mr. Neuhausel
5030 P7 1 Opening a Garage Door with Raspberry Pi
Student(s) Sarah Johnson **Grade 7** **Town** Danbury

Danbury Westside Middle School Academy Jonathan Neuhausel
5037 P7 3 Using Different Plant Xylem to Filter Phosphates
Student(s) Anjeli Joseph **Grade 7** **Town** Danbury

Danbury Westside Middle School Academy Neuhausel
2539 L8 1 The Impact of Different Water Pollutants on Biological Health Indices
Student(s) Kiara Kaltschnee **Grade 8** **Town** Danbury

Danbury Westside Middle School Academy Jonathan Neuhausel
2545 L8 2 Finding the Most Efficient Anti-fungal Food Using a Baking Yeast Solution
Student(s) Jacob Laham **Grade 8** **Town** Danbury

Danbury Westside Middle School Academy Mr. Neuhausel
5033 P7 3 Changing the pH of Soil to Generate Electricity in the Form of a Microbial Fuel Cell
Student(s) Nila Narayan **Grade 7** **Town** Danbury

Danbury Westside Middle School Academy Mr. Neuhausel
5007 P7 2 Changing the Water Content in Soil to Generate Electricity in form of an Earth Battery
Student(s) Rashmi Pai **Grade 7** **Town** Danbury

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Danbury Westside Middle School Academy Jonathan Neuhausel

5002 P7 2 How much air is needed to allow a weighted structure to rise?
Student(s) Siara Pittman **Grade** 7 **Town** Danbury

Darien Darien High School Leventhal

6054 PS 2 A field study on the widespread effect of three viruses on the domesticated honeybee, the Apis mellifera
Student(s) Elizabeth Drippe **Grade** 12 **Town** Darien

Darien Darien High School David Lewis

3134 LS 3 Ambiguous Beats: Using EEG to measure how movement influences rhythmic processing in young infants
Student(s) Sonia Gandhi **Grade** 12 **Town** Darien

Darien Darien High School Mr. David Lewis

3076 LS 3 The Effect of FGF2 on Hypoxia in the Mouse DG: A Model for Human Perinatal Hypoxia
Student(s) Kate Halabi **Grade** 12 **Town** Darien

Darien Darien High School Christine Leventhal

3069 LS 3 Elucidating the Ethylene Signal Pathway in Arabidopsis
Student(s) Christian Kanlian **Grade** 12 **Town** Darien

Darien Darien High School Mrs. Leventhal

3051 LS 3 Exploring the Tunicate Ascidia callosa and its Associated Bacteria for Antimicrobial Compounds and other Marine Natural Products
Student(s) Allegra Molkenthin **Grade** 12 **Town** Darien

Darien Darien High School Christine Leventhal

6034 PS 3 The Synchronous Rotation of the Eris/Dysnomia Binary System
Student(s) Yasi Owainati **Grade** 12 **Town** Darien

Darien Darien High School Christine Leventhal

6100 PS 3 Exploring the Optical Audio Link
Student(s) Mallory Zabrocky **Grade** 12 **Town** Darien

East Hartford East Hartford High School Tim Reid

6099 PS 3 Algae Balls
Student(s) Tyrese Fenty **Grade** 10 **Town** East Hartford

East Hartford East Hartford High School Mr.Reid

3026 LS 3 Does seed spacing affect plant height?
Student(s) Jessica Repass **Grade** 10 **Town** East Hartford

East Hartford East Hartford High School Timothy Reid

6016 PS 3 More Holes More Goals
Student(s) Alyssa Vannalath **Grade** 10 **Town** East Hartford

East Lyme East Lyme High School Lewis Tucker

3017 LS 2 Clinical application of 3D printing technology in cancer radiation therapy: A novel method to improve dose conformity with patient specific treatment aid device
Student(s) Du Chen **Grade** 11 **Town** Niantic

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Enfield St. Martha School Chrisie Gonzalez
5064 P7 2 Cooling Mints
Student(s) Shannon Kelley **Grade 7** **Town** Suffield

Enfield St. Martha School Christie gonzalez
4032 PT 3 Sugar Rainbow
Student(s) Ciara Logan **Grade 8** **Town** Somers
Shelby Arcouette **Grade 8** **Town** Enfield
Madison Langh **Grade 8** **Town** Enfield

Enfield St. Martha School Mrs. Gonzalez
4004 PT 2 Snow Melting
Student(s) Jasmine Yard **Grade 8** **Town** Somers
Rachel Lagasse **Grade 8** **Town** Enfield

Fairfield Fairfield College Preparatory School Mrs. Kiel
6029 PS 3 Creating An Algorithm Based Off of The Quantum Turing Machine To Predict The Efficiency of Quantum Computational Operating Methods Using Benchmarked Simulated Environments
Student(s) Junlin Mo **Grade 10** **Town** Bridgeport

Fairfield Fairfield College Preparatory School Mrs. Kiel
3095 LS 1 How Grey Oyster Mushrooms Can Be Used To Break Down Oil And Reduce Waste In The Environment.
Student(s) Jonathan Siveyer **Grade 10** **Town** Monroe

Fairfield Our Lady of the Assumption School Kathy Almeida
5526 P8 2 Do expensive basketball sneakers outperform inexpensive basketball sneakers?
Student(s) Matthew Carrara **Grade 8** **Town** Bridgeport

Fairfield Our Lady of the Assumption School Kathy Almeida
5556 P8 2 Is your lipstick toxic?
Student(s) Elizabeth Ereshena **Grade 8** **Town** Bridgeport

Fairfield Our Lady of the Assumption School Kathy Almeida
2532 L8 2 How Much Organic Material Can Earthworms Decompose?
Student(s) Christopher Stevens **Grade 8** **Town** Stratford

Fairfield Our Lady of the Assumption School Kathy Almeida
5536 P8 3 Tap Water vs Bottled Water- Is There a Difference?
Student(s) Mylz Voss **Grade 8** **Town** Bridgeport

Fairfield St. Thomas Aquinas Catholic School Mr. Philip Flynn
1023 LT 3 The Trilogy of Light: Fluorescent, LED, Incandescent
Student(s) Melissa Caiola **Grade 8** **Town** Fairfield
Alanna Murphy **Grade 8** **Town** Fairfield

Fairfield St. Thomas Aquinas Catholic School Mr. Philip Flynn
1002 LT 3 Which cleanser will make a fresh-faced student?
Student(s) Olivia Golden **Grade 7** **Town** Southport
Laura Elwood **Grade 7** **Town** Fairfield

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Fairfield St. Thomas Aquinas Catholic School Philip Flynn

4009 PT 3 Surface Tension

Student(s) Joseph Kulaga

Grade 8 Town Fairfield

Michael Fickes

Grade 8 Town Fairfield

Fairfield St. Thomas Aquinas Catholic School Philip Flynn

2533 L8 2 Food & Texture: Does seeing the food affect your liking a food that has changed from its original texture?

Student(s) Conor Landry

Grade 8 Town Fairfield

Fairfield St. Thomas Aquinas Catholic School Philip Flynn

5024 P7 3 Measuring Acceleration on an Inclined Plane

Student(s) Matthew Wiig

Grade 7 Town Southport

Falls Village Lee H. Kellogg School Joseph Markow

5040 P7 3 Effectiveness of Fertilizer Application Techniques in Reducing Fertilizer Runoff and Pollution

Student(s) Jenna Luz

Grade 7 Town Falls Village

Fishers Island Fishers Island School Carol Giles

3036 LS 3 Does the Color of a Classroom Effect Learning Comprehension?

Student(s) Connor Beverly

Grade 11 Town Pawcatuck

Fishers Island Fishers Island School Carol Giles

6104 PS 2 Investigating the Benefits of Receiving Information Through Video

Student(s) Aaron Kane

Grade 12 Town Groton

Fishers Island Fishers Island School Mrs. Giles

3119 LS 2 Assessing Changes in Growth Rate of the American Lobster Under Different Environmental Stressors as Modeled by the Red Swamp Crayfish

Student(s) Elias Kane

Grade 11 Town Groton

Fishers Island Fishers Island School Carol Giles

6010 PS 3 Wax On, Wax Off

Student(s) Gabrielle Krysiwicz

Grade 11 Town Quaker Hill

Fishers Island Fishers Island School Carol Giles

6048 PS 2 Is The Money Worth It?

Student(s) Shelby Lusker

Grade 12 Town Fishers Island

Fishers Island Fishers Island School Carol Giles

3019 LS 3 Pollutants and there Detrimental Effects on Shrimp

Student(s) Ellie McCarthy

Grade 12 Town North Stonington

Fishers Island Fishers Island School Carol

3126 LS 3 Phytoplankton's Effect on Ocean Acidification

Student(s) Sophia Streimer

Grade 12 Town Mystic

Fishers Island Fishers Island School Carol Giles

3041 LS 2 Remediating Rivalry?

Student(s) Mackenzie Switz

Grade 11 Town Stonington

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Glastonbury Glastonbury High School Diane Pintavalle

6049 PS 2 Recovering carbon nanotube fluorescence through conformational change of side chains

Student(s) Christopher Augustinos **Grade 12** **Town** Glastonbury

Glastonbury Glastonbury High School Sara Almeida

3123 LS 3 miRNA Analysis of Exosomes from Osteosarcoma Cells

Student(s) Leelakrishna Channa **Grade 11** **Town** Glastonbury

Glastonbury Glastonbury High School Diane Pintavalle

6008 PS 3 Study to Improve the Constraint of Ultra-High Performance Concrete Double-T Bridge Girders by Adjusting the Architecture of Steel Fibers in the Web

Student(s) Andrew Dauphinais **Grade 12** **Town** Glastonbury

Glastonbury Glastonbury High School Ms. Pintavalle

6027 PS 2 Financially Superior Energy Source for Subterranean Inhabitants

Student(s) Ashley Gartland **Grade 11** **Town** Glastonbury

Glastonbury Glastonbury High School Dr. Ali Bazzi

6068 PS 1 Evaluation of Several Resonant Power Electronic Converters in Capacitively Coupled Wireless Energy Transmitters

Student(s) Paul Han **Grade 11** **Town** Glastonbury

Glastonbury Glastonbury High School Ms. Pintavalle

3061 LS 3 The Relationship Of Major Vein Density on Leaf Shape and Size in the Plant Genus Pelargonium

Student(s) Jennifer King **Grade 11** **Town** Glastonbury

Glastonbury Glastonbury High School Diane Pintavalle

3106 LS 2 Differences in the measurements and numbers of nuclear pores and nuclear pore complexes in wildtype stem cell lines and Huntington's Disease stem cell lines

Student(s) Kanika Malani **Grade 11** **Town** Glastonbury

Glastonbury Glastonbury High School Diane Pintavalle

3054 LS 2 Preparation and Comparison of EGCG-Loaded PLGA and Cellulose Acetate Microparticles for Osteoarthritis Treatment

Student(s) Anubhuti Mathur **Grade 12** **Town** Glastonbury

Glastonbury Glastonbury High school Ms. Pintavalle

3132 LS 3 CHANGING CONSTRUCTION FACTORS TO CREATE DIFFERENT MORPHOLOGIES OF PHOSPHOLIPID AGGREGATES

Student(s) Nathaniel Reynolds **Grade 12** **Town** Glastonbury

Glastonbury Glastonbury High School Ms. Pintavalle

6073 PS 2 Chef NAO: The Humanoid Cooking Robot

Student(s) Kiele Sacco **Grade 12** **Town** Glastonbury

Glastonbury Glastonbury High School Ms. Pintavalle

3046 LS 2 Correlation of frequency of cancer stem cells to patient outcome in osteosarcoma

Student(s) Meaghan Schneider **Grade 12** **Town** Glastonbury

Glastonbury Glastonbury High School Ms. Pintavalle

6032 PS 2 Effect of dark matter halo on merging

Student(s) Alexander Sobelman **Grade 12** **Town** Glastonbury

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Glastonbury Glastonbury High School Ms.Pintavalle

3005 LS 1 Investigating Inhibitors of Dihydrofolate Reductase Enzymes of Streptococcus pyogenes and Staphylococcus aureus

Student(s) Sara Tavakoli **Grade** 11 **Town** Glastonbury

Glastonbury Glastonbury High School Ms. Dianne Pintavalle

3025 LS 3 Suicide Reportings in New England

Student(s) Morgan Tiroff **Grade** 12 **Town** Glastonbury

Glastonbury Glastonbury High School Diane Pintavalle

6102 PS 2 Investigation of Mesoporous Cobalt-Doped Cerium Oxide in the Water-Gas Shift

Student(s) Kevin Wijendra **Grade** 11 **Town** South Glastonbury

Glastonbury Smith Middle School Mary Coburn

5029 P7 1 Sound Barriers: How does the type of material affect the amount of sound that carries through a surface?

Student(s) Arjun Ahilan **Grade** 7 **Town** Glastonbury

Greens Farms Greens Farms Academy Sara Campolettano

2503 L8 3 The Effect of Caffeine on the Heart Rate of Daphnia Magna

Student(s) Allie Agnew **Grade** 8 **Town** Westport

Greens Farms Greens Farms Academy Dr.Freeman

6039 PS 1 Optimization of Reflectivity of GaN for Solar Applications

Student(s) Matthew Lichtenberg **Grade** 11 **Town** Satmford

Greens Farms Greens Farms Academy Sara Campolettano

5557 P8 2 Injury Reducing Characteristics of Running Shoes Using Innovation and Design

Student(s) Lilah McCormick **Grade** 8 **Town** Westport

Greens Farms Greens Farms Academy Dr. Freeman

3047 LS 1 The Effect of Cold Stress on the Frequency of CD8+ T Cells in Aged Mice

Student(s) Elizabeth McGonagle **Grade** 12 **Town** Southport

Greens Farms Greens Farms Academy Sara Campolettano

2517 L8 3 Aquaponics: The impact of combining agriculture and aquaculture techniques on plant germination and growth.

Student(s) Amy Petschek **Grade** 8 **Town** Norwalk

Greens Farms Greens Farms Academy Sara Campolettano

2509 L8 3 The Effects of Honey on the Healing and Regeneration of Lumbriculus variegatus

Student(s) Lila Wells **Grade** 8 **Town** Darien

Greenwich Brunswick School Dana Montanez

6067 PS 2 Efficient Soundproofing: Design of a System using Multiple Technologies

Student(s) Tucker Calcano **Grade** 10 **Town** Greenwich

Greenwich Brunswick School Dana Montanez

6511 PST 1 A Feasibility Study of Portable, Ground-Based Ice-Penetrating Radar to Resolve Cartography Deficiencies.

Student(s) Ryan Callaghan **Grade** 11 **Town** Wilton

Alessandro Mariani **Grade** 11 **Town** Greenwich

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Greenwich Brunswick School Dana Montanez
6051 PS 2 Revolutionizing A 16th Century Product For The Modern World: A Thermoelectric Chair That Creates Energy From The Human Touch

Student(s) Angus Fraser **Grade** 11 **Town** Darien

Greenwich Brunswick School Dana Montanez
6023 PS 2 A Comparative Analysis of Rotating Solar Cubes vs. Horizontal Solar Arrays

Student(s) William Gorman **Grade** 10 **Town** Bedford

Greenwich Brunswick School Mrs. Montanez
3091 LS 1 An Investigation of Drone Downdraft as a Viable Alternative for Insect Pollination of Essential Crops

Student(s) Andreas Kern **Grade** 11 **Town** Greenwich

Greenwich Brunswick School Dana Montanez
3079 LS 3 Accumulation and Biomagnification of Microplastics in Marine Bivalves and Gastropods

Student(s) Colin MacFaddin **Grade** 10 **Town** Cos Cob

Greenwich Brunswick School Dana Montañez
3508 LST 1 Target Identification: Frequency of the PV92 Alu Insertion within a Given Population

Student(s) Jamie MacFarlane **Grade** 11 **Town** Greenwich

Nick VanBelle **Grade** 11 **Town** Stamford

Eric Ganshaw **Grade** 11 **Town** Greenwich

Greenwich Brunswick School Dana Montanez
3116 LS 1 An Investigation of Superparamagnetic Iron Nanoparticle Hyperthermia to Inhibit Growth of Agrobacterium tumefaciens

Student(s) Andrew Mellert **Grade** 10 **Town** Greenwich

Greenwich Brunswick School Dana Montañez
3522 LST 3 Desalination by Portulaca oleracea: Maintaining and stabilizing overall growth and production of Omega-3 Fatty Acids

Student(s) Christopher Peisch **Grade** 11 **Town** Greenwich

Thomas Kern **Grade** 11 **Town** Greenwich

Greenwich Brunswick School Dana Montanez
6001 PS 1 Drone-based, Tropospheric Gas Collection for use in Air Quality Monitoring

Student(s) Lachlan Rosato **Grade** 10 **Town** Greenwich

Greenwich Brunswick School Mrs. Montanez
6080 PS 2 A Water-Resistant, Piezoelectric Precipitation Generator; A comparative analysis of mobile v. stationary systems

Student(s) David Ruf **Grade** 12 **Town** Greenwich

Greenwich Brunswick School Dana Montanez
6074 PS 2 Converting Ambient Water Vapor to Potable Drinking Water Inspired by the Shorebird beak

Student(s) Siyan Shaikh **Grade** 10 **Town** Stamford

Greenwich Brunswick School Dana Montanez
6085 PS 2 Creation of a Fresnel Lens Array for use in Water Purification

Student(s) John Stefanou **Grade** 10 **Town** Old Greenwich

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Greenwich Brunswick School Mrs. Montanez
3120 LS 3 Isolation and Use of Antimicrobial Polypeptides found in Grains to Inhibit the Growth of Gram-Positive and Gram-Negative Bacteria
Student(s) Alex Wada **Grade** 10 **Town** Old Greenwich

Greenwich Central Middle School Mrs. Bresler
5012 P7 3 Die sensitized solar cell
Student(s) Josephine Fischer **Grade** 7 **Town** Greenwich

Greenwich Central Middle School Ms. Bresler
5514 P8 1 Substitution of Metals in a Salt-Water Engine to Increase Energy-Efficiency
Student(s) Bennett Hawley **Grade** 8 **Town** Cos Cob

Greenwich Central Middle School Jennifer Bresler
5553 P8 3 Effect of different soil types on Hyacinth plants.
Student(s) Nicholas Woo **Grade** 8 **Town** Greenwich

Greenwich Central Middle School Jennifer Bresler
2536 L8 3 Regenerative Nano Particle Films
Student(s) Logan Woods **Grade** 8 **Town** Greenwich

Greenwich Convent of the Sacred Heart Mary Musolino
3524 LST 3 Fish Finders: DNA to Expose Fish Fraud
Student(s) Lucy Alderson-Smith **Grade** 11 **Town** Rye
Cynthia Thomas **Grade** 11 **Town** Harrison

Greenwich Convent of the Sacred Heart Mary Musolino
3068 LS 3 A Study of the Removal of Pollutants by Rain Gardens, a Type of Low-Impact Development Drainage System
Student(s) Sarah Banker **Grade** 12 **Town** Greenwich

Greenwich Convent of the Sacred Heart Mary Musolino
3505 LST 3 DNA Barcoding to Detect Mislabeling and Endangered Species in Turtle Meat
Student(s) Madeleine DeVita **Grade** 11 **Town** Darien
Isabella Caponiti **Grade** 11 **Town** Rye

Greenwich Convent of the Sacred Heart Mary Musolino
3517 LST 2 DNA Barcoding of Invasive Species on a Suburban Campus
Student(s) Madeline Henrie **Grade** 11 **Town** Stamford
Katherine Siciliano **Grade** 11 **Town** Stamford
Lillian Pura **Grade** 11 **Town** Greenwich

Greenwich Convent of the Sacred Heart Mary Musolino
3109 LS 3 DNA Barcoding in "Health Bars"
Student(s) Lilly Morriss **Grade** 11 **Town** Rye

Greenwich Greenwich Academy Antoinette Decker
6069 PS 3 Bio-Fuel Magnetic Levitation Vehicle
Student(s) Jadesola Ariyibi **Grade** 11 **Town** Greenwich

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Greenwich Greenwich Academy Ann Decker

6033	PS	2	Transforming Keyboard Strike Vibrations Into Electricity Via Piezoelectric Sensors
Student(s) Darren Drittel			Grade 11 Town Greenwich

Greenwich Greenwich Academy Dr. Decker

3071	LS	2	The Effect of Neotame on Lifespan and Pharyngeal Pumping Rate in Daf-2 Mutant Caenorhabditis Elegans
Student(s) Alexa Murray			Grade 11 Town Greenwich

Greenwich Greenwich Catholic School Carol Lutz

4021	PT	3	Keep Out! : An Animal Proof Garden Enclosure.
Student(s) Andrew Lencyk			Grade 7 Town Stamford
Dylan Allman			Grade 7 Town Stamford

Greenwich Greenwich Catholic School Carol Lutz

1025	LT	2	Survive with Salt Water
Student(s) Daniel Mabes			Grade 7 Town Greenwich
Nicholas Cotaj			Grade 7 Town Stamford
Terrence McGrath			Grade 7 Town Stamford

Greenwich Greenwich Catholic School Ms. Rebecca Wood

5552	P8	3	How can I make my own rubber pointe shoes?
Student(s) Maura McHugh			Grade 8 Town Stamford

Greenwich Greenwich Catholic School Rebecca Wood(Science teacher)

1012	LT	3	Bacterial Invasion
Student(s) Samantha Sarelli			Grade 8 Town Cos Cob
Vanessa Comeau			Grade 8 Town Stamford
Heather Carr			Grade 8 Town Stamford

Greenwich Greenwich High School Andy Bramante

3020	LS	1	Effective Optimization of Biogas Production through Alpha-Amylase Utilization
Student(s) Bryce Anderson			Grade 11 Town Cos Cob

Greenwich Greenwich High School Andrew Bramante

6095	PS	1	Novel Creation of a versatile, low-cost water purification system via a graphene oxide-TiO2 composite membrane with incorporated electrified nanostructures
Student(s) Sophie Bardos			Grade 11 Town Riverside

Greenwich Greenwich High School Andrew Bramante

6015	PS	1	Synthesis of an Electromagnetically-Controlled Corn-Starch/PVA Biopolymer Microstructure for Extended and Targeted Drug Delivery
Student(s) Margaret Cirino			Grade 10 Town Greenwich

Greenwich Greenwich High School Mr. Andrew Bramante

3009	LS	2	Novel Ultrasonic-Induced Antibiotic Deterioration of Borrelia Biofilms for the Treatment of Chronic Lyme Disease
Student(s) Sophia Ertel			Grade 12 Town Old Greenwich

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Greenwich Greenwich High School Andy Bramante

3096	LS	1	Temperature-Independent, Portable, and Rapid Field Detection of Ebola via a Silk-Derived Lateral-Flow System
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Student(s) Olivia Hallisey

Grade 10 **Town** Greenwich

Greenwich Greenwich High School Andy Bramante

3114	LS	1	A Novel Antibody-Functionalized Graphene Transistor Lab-On-A-Chip for Selective Detection of Malaria Pathogens
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Student(s) Paul Hansel

Grade 11 **Town** Old Greenwich

Greenwich Greenwich High School Andrew Bramante

3049	LS	2	Targeted Release of Moringa oleifera Cationic Proteins from Starch-g-poly (sodium acrylate-co-HEMA) Hydrogels for the Remediation of Aqueous Polychlorinated Biphenyls
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Student(s) Vijay Kadiyala

Grade 11 **Town** Old Greenwich

Greenwich Greenwich High School Andrew Bramante

3092	LS	3	Enhancement of antibiotic effects on various species of bacterium via infusion of silver nanoparticles
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Student(s) Andrew Lim

Grade 11 **Town** Old Greenwich

Greenwich Greenwich High School Andrew Bramante

6090	PS	2	The effect of application of a solenoid on the magnetic properties of gadolinium at varying temperatures and current levels.
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Student(s) Max Marcussen

Grade 11 **Town** Riverside

Greenwich Greenwich High School Mr. Andrew Bramante

6005	PS	1	An Optically Self-Healing Metallo-Supramolecular Polymer Encapsulated UV-NIR Organic Solar Cell for Transparent Energy-Harvesting and Electronic Skin Applications
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Student(s) Maxmillian Minichetti

Grade 12 **Town** Greenwich

Greenwich Greenwich High School Andrew Bramante

6101	PS	1	Low Grade Waste Heat Recovery and Carbon Sequestration using an Innovative Reverse Electrodialysis (RED) and Pressure Retarded Osmosis (PRO) System
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Student(s) Ethan Novek

Grade 10 **Town** Greenwich

Greenwich Greenwich High School Andrew Bramante

3031	LS	1	Chocolate's Theobromine, and not Caffeine, significantly reduces sleep in Drosophila
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Student(s) Reid Radulovacki

Grade 11 **Town** Greenwich

Greenwich Greenwich High School Andrew Bramante

3063	LS	2	Restricting the Growth of Lactamase-producing Bacterial Strains of Enterobacter aerogenes through Minimum Inhibitory Concentrations of Essential Oil Extracts
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Student(s) Sanjeev-kumar Sathish

Grade 10 **Town** Greenwich

Greenwich Greenwich High School Andrew Bramante

6026	PS	2	Investigation of a Bacteriorhodopsin-Pt/TiO ₂ Hybrid System for Enhanced Nanophotocatalytic Production of Hydrogen
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Student(s) Mark Stich

Grade 11 **Town** Greenwich

Greenwich Greenwich High School Andrew Bramante

6087	PS	1	Application of Manganese-Based Ionic Liquid for Optimized Performance of Non-aqueous / Aqueous Redox Flow Batteries
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Student(s) Nicholas Szabo

Grade 11 **Town** Glenville

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Greenwich Greenwich High School Mr. Andrew Bramante

3110 LS 1 Hybridized Manganese Dioxide & Gold-Iron Oxide Nanoparticle Inhibition of Tumor Growth via Radiosensitization and Tumor Microenvironment Control

Student(s) William Yin **Grade** 10 **Town** Greenwich

Greenwich Greenwich High School Andrew Bramante

3038 LS 3 Inhibiting the Growth of Triple-Negative Breast Cancer Tumor Growth by Targeting the Proinflammatory Cytokine

Student(s) Madeleine Zhou **Grade** 10 **Town** Old Greenwich

Groton Sacred Heart School Sheryl McCarthy

5527 P8 3 Hot Vs. Cold

Student(s) Mary Balagna **Grade** 8 **Town** Mystic

Groton Sacred Heart School Sheryl McCarthy

2029 L7 3 That Is The Reason Why Your Teeth Are Stained

Student(s) Bethany Chavez **Grade** 7 **Town** New London

Groton Sacred Heart School Mrs. Sheryl McCarthy

5057 P7 3 What's in this water?

Student(s) Breanna Hoth **Grade** 7 **Town** Gales Ferry

Groton Sacred Heart School Sheryl McCarthy

2512 L8 3 A Battery That Makes Cents

Student(s) Nicole Lawton **Grade** 8 **Town** Groton

Groton Sacred Heart School Sheryl McCarthy

2036 L7 3 Does Music Affect Running Pace?

Student(s) Melissa Mancuso **Grade** 7 **Town** Mystic

Groton Sacred Heart School Sheryl McCarthy

5569 P8 3 Spandex: Speedy or Spendy?

Student(s) Grace Murphy **Grade** 8 **Town** Gales Ferry

Groton Sacred Heart School Mrs. Sheryl McCarthy

2014 L7 1 Operation Jason

Student(s) Lauren O'Donnell **Grade** 7 **Town** Mystic

Groton Sacred Heart School Sheryl McCarthy

5050 P7 3 I'm Dye-ing To Find Out What Dyes Are Used In My Favorite Candies: A Candy Chromatography Experiment

Student(s) Emma Smith **Grade** 7 **Town** Groton

Groton Sacred Heart School Mrs. Sheryl McCarthy

5525 P8 2 Solid Ground?

Student(s) Joshua Terry **Grade** 8 **Town** Ivoryton

Groton Sacred Heart School Sheryl McCarthy

5003 P7 2 Do Wheels Increase Distance On a Trebuchet?

Student(s) Alexander Warmus **Grade** 7 **Town** Ledyard

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Guilford E.C. Adams Middle School Mrs. Hayash
5004 P7 2 The Effects of Boiling on the pH and nitrite Levels of Water
Student(s) Adella Cho **Grade 7** **Town** Guilford

Guilford E.C. Adams Middle School Kristen L. Meyerjack
1024 LT 3 The Effect of Different Heating Sources on How Fast Water Can Reach Boiling Point
Student(s) Gianni Esposito **Grade 7** **Town** Guilford
Aidan Henry **Grade 7** **Town** Guilford

Guilford E.C. Adams Middle School Lynn Arnold
2020 L7 1 How sweet is it really? Tracking down hidden sugar in drinks.
Student(s) Sequoia Kessler **Grade 7** **Town** Guilford

Guilford E.C. Adams Middle School Miss Meyerjack
5046 P7 2 The Effect of Different Temperatures on the Strength of a Magnet
Student(s) Rose McDermott **Grade 7** **Town** Guilford

Guilford E.C. Adams Middle School Mrs. Arnold
2037 L7 2 The Effect of Sugar on Yeast Cells
Student(s) Maddy Norris **Grade 7** **Town** Guilford

Hamden Hamden High School Ms. Stockwell
3027 LS 2 MiRNA Target Sites in the 3' Untranslated Region of West Nile Virus
Student(s) Aakshi Agarwal **Grade 10** **Town** Hamden

hamden Hamden Middle School Danny Martins
2527 L8 3 Viral Protein 35 Inhibition: A Novel Treatment for Ebola Virus Disease
Student(s) Akshar Agarwal **Grade 8** **Town** Hamden

Hamden Hamden Middle School Mr. Martins
5530 P8 1 What's Shaking? - A Study of Soil Liquefaction
Student(s) Andrew Larocque **Grade 8** **Town** Hamden

Hamden Hamden Middle School Danny Martins
5516 P8 3 Home-Made Particle Accelerator
Student(s) Michael Loalbo **Grade 8** **Town** Hamden

Hamden Hamden Middle School Mr. Danny Martins
1009 LT 2 Bridge Strength
Student(s) Madeleine Malin **Grade 8** **Town** Hamden
Ava Albis **Grade 8** **Town** Hamden

Hamden Hamden Middle School Andrew Marzano
4023 PT 2 Wind Power: How the Shape of the Blade Affects the amount of Power Produced.
Student(s) Ingrid Schwarz **Grade 8** **Town** Hamden
Quennie Callanta **Grade 8** **Town** Hamden

Hamden Hamden Middle School Danny Martins
5519 P8 2 Instrument Science: Bell Flares
Student(s) Miles Singer **Grade 8** **Town** Hamden

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Hamden Hamden Middle School Mr. Marzano

5503	P8	3	Evaporation Rate Of An Ice Cube In Liquids With Varying Densities
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Student(s) Matthew Ticotsky **Grade** 8 **Town** Hamden

Hamden Sacred Heart Academy Dr. Elizabeth Christophy

3122	LS	3	Disinfection By-Products in Water
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Student(s) Jordan Earl **Grade** 10 **Town** Hamden

Hamden Sacred Heart Academy Sr. Mary Jane Paoella

3082	LS	3	The Effect of Elevated Glucose Levels on the Maternal-Fetal Interface
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Student(s) Ashley Garcia **Grade** 12 **Town** Deep River

Hamden Sacred Heart Academy Dr. Lolis

3100	LS	2	Determining the Ras-like Structure of the Gai2 Protein
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Student(s) Gabrielle Hummel **Grade** 12 **Town** Wallingford

Hamden Sacred Heart Academy Susan Nelson

3131	LS	3	What is the Best Way to Deliver Light to Plants?
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Student(s) Maia Jakubowski **Grade** 9 **Town** Cheshire

Hamden Sacred Heart Academy Pamela Brownell

3514	LST	2	The Effect of Vitamin C on Echinoderm Leg Regeneration
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Student(s) Monika Krah **Grade** 10 **Town** Hamden
Alexa Fiala **Grade** 10 **Town** Cheshire

Hamden Sacred Heart Academy Mrs. Pamela Brownell

3090	LS	3	Analyzing Cathode Placement in a Simple Single Vessel Microbial Fuel Cell: Potential Implications for Efficiency and Practical Applications
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Student(s) Elizabeth LoPreiato **Grade** 10 **Town** New Britain

Hamden Sacred Heart Academy Mrs. Brownell

3029	LS	3	Can Metabolism Rates be Used to Differentiate Between Genetically Distinct Cells?
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Student(s) Katherine Mackey **Grade** 10 **Town** Cheshire

Hamden Sacred Heart Academy Mrs. Nelson

3055	LS	2	The Effects of Grey Water on the Germination Rate and Growth of a Variety of Grass Species.
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Student(s) Laura Moccicola **Grade** 9 **Town** Shelton

Hamden Sacred Heart Academy Dr. Sibani Sengupta

6512	PST	2	Using Plants to Reduce Atmospheric Carbon Dioxide
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Student(s) Jennifer Piciw **Grade** 11 **Town** Shelton
Mitali Bandyopadhyay **Grade** 11 **Town** Farmington

Hamden Sacred Heart Academy Dr. Seyedtaghi Takyar

3113	LS	2	Endothelial microRNA-1 Controls Tumor Growth Through Regulation of Angiocrine Signalling
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Student(s) Isabella Siegel **Grade** 12 **Town** Hamden

Hamden Sacred Heart Academy Mrs. Alyssa Shields

3013	LS	2	The Effects of Organic and Chemical Fertilizers on Snails of the Long Island Sound
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Student(s) Amy Ziobron **Grade** 9 **Town** Westbrook

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Hartford Academy of Aerospace and Engineering Dr. Lili Aramli
3059 LS 2 Honey as an Antibacterial Agent
Student(s) Alec Bernardi **Grade** 11 **Town** Tolland

Hartford Academy of Aerospace and Engineering Dr. Lili Aramli
3111 LS 2 The Effect of Zinc Oxide Nanoparticles on the Growth of Bacterial Infections
Student(s) Shivani Dave **Grade** 11 **Town** Middletown

Hartford Environmental Sciences Magnet School at Mary Mrs.Devlin
5568 P8 3 Can you walk longer with or without music?
Student(s) Shamsun Begum **Grade** 8 **Town** Hartford

Hartford Environmental Sciences Magnet School at Mary Kirsten Devlin
5038 P7 3 Frozen
Student(s) Devon Christie **Grade** 7 **Town** Hartford

Hartford Environmental Sciences Magnet School at Mary Ms.Devlin
2534 L8 3 Reaction Time
Student(s) Adreian Feliciano **Grade** 8 **Town** Hartford

Hartford Environmental Sciences Magnet School at Mary Mrs. Devlin
2018 L7 2 Curious Cuttings
Student(s) Brandon Foran **Grade** 7 **Town** New Britain

Hartford Environmental Sciences Magnet School at Mary Mrs.Devlin
2028 L7 2 Lets help plants grow!!!
Student(s) Masudur Rahman **Grade** 7 **Town** Hartford

Hartford Environmental Sciences Magnet School at Mary Mrs. Devlin
2505 L8 2 Brine Shrimp Hatching
Student(s) Tyler Reeve **Grade** 8 **Town** New Britain

Hartford Environmental Sciences Magnet School at Mary Kirsten Devlin
2544 L8 1 Fruit Fly Fatality
Student(s) Hunter Rego **Grade** 8 **Town** Winsted

Hartford Environmental Sciences Magnet School at Mary Kirsten Devlin
2034 L7 2 All About That Bait
Student(s) Brian Valigorsky **Grade** 7 **Town** Winsted

Hartford Greater Hartford Academy of Math & Science Dr. Lili Aramli
3014 LS 3 Antimicrobial Properties of Various Plant Leaf Extracts on Escherichia Coli
Student(s) Deivydas Giedrimas **Grade** 11 **Town** Rocky Hill

Hartford Greater Hartford Academy of Math & Science Dr. Aramli
3044 LS 3 The Effect of Beta Carotene on the Proliferation of Mouse Mammary Carcinoma
Student(s) Rounak Gokhale **Grade** 12 **Town** Rocky Hill

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Hartford Greater Hartford Academy of Math & Science Dr. Lili Aramli
3101 LS 2 The Effects of Curcumin and Eucalyptus Oil on the Growth and Apoptotic Properties of Breast Cancer Cells

Student(s) Emily Gombotz **Grade** 11 **Town** Berlin

Hartford Greater Hartford Academy of Math & Science Dr. Aramli
3039 LS 3 Zeolite Zaps Cancer Cells

Student(s) Jacqueline Klepinger **Grade** 11 **Town** Wethersfield

Hartford Greater Hartford Academy of Math & Science Dr. Lili Aramli
3077 LS 2 Exploration into the Effects of Anti-PAR2 Antibody on the Expression of CUX-1 Related Metabolic Pathways and Apoptosis of Mouse Breast Cancer Cells

Student(s) Leon Novak **Grade** 11 **Town** Rocky Hill

Hartford Greater Hartford Academy of Math & Science Dr. Aramli
3128 LS 2 The Effects of Pollution On the Regenerative Process of the Nematostella Organism

Student(s) Bryan Tassavor **Grade** 11 **Town** Rocky Hill

Hartford Greater Hartford Academy of Math & Science Dr. Lili Aramli
3067 LS 2 An Investigation of an alternate treatment method, bacteriophage, for bacterial infections and the use of bacteriophages for an antibiotic

Student(s) Sydney Wimberley **Grade** 11 **Town** Windsor

Hartford High School, Inc. David Aleshire
3104 LS 3 The Laws of Attraction

Student(s) Madyson Frame **Grade** 10 **Town** Hartford

Hartford High School, Inc. david aleshire
3050 LS 3 Poetic Mind

Student(s) Jahyeliss Minano **Grade** 11 **Town** Hartford

Hartford High School, Inc. Mr. Aleshire
3057 LS 3 Do Color Words Affect The Reaction of Your Brain?

Student(s) Yulissa Ortiz-Morales **Grade** 11 **Town** Hartford

Hartford University High School of Sci & Eng Michael Fromerth
3098 LS 1 A Self-Sustaining Electrical Shoe Insert for Treatment of Diabetic Neuropathy

Student(s) Gabriel Mesa **Grade** 9 **Town** Canton

Hebron Independent - RHAM Middle School Robert Clarke
5015 P7 3 Salt Water Floating Food Production using low cost desalination techniques.

Student(s) Isabelle Benson-Clarke **Grade** 7 **Town** Marlborough

Hebron RHAM High School Kristin Spinelli
3515 LST 2 Manure to Methane

Student(s) Taylor Brysgel **Grade** 9 **Town** Marlborough
Darren Lin **Grade** 9 **Town** Marlborough

Lakeville The Hotchkiss School Sinisa Vukelic
3060 LS 2 Biochemical Changes in Corneal Collagen Cross-linking: Nondestructive Analysis by Raman Spectroscopy

Student(s) Kyoung A Lee **Grade** 11 **Town** Lakeville

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Madison Daniel Hand High School Madhuparna Roychoudhury

6064 PS 1 Power generation via downdraft of humidified dry air

Student(s) Ankita Roychoudhury **Grade** 10 **Town** Madison

Madison Daniel Hand High School Madhuparna Roychoudhury

6062 PS 1 Ferromagnetism: Using ferromagnetic fluid to control prosthetics

Student(s) Shayan Roychoudhury **Grade** 12 **Town** Madison

Madison Our Lady of Mercy School Mr. Supik

2027 L7 3 How Does Water Impact Plant Growth?

Student(s) Summer Adams **Grade** 7 **Town** Madison

Madison Our Lady of Mercy School Mr Supik

1006 LT 3 So You Think You Can Multitask? A Study of Multitasking: Help or Hinderance to Learning and Recall

Student(s) Pamela Engelhart **Grade** 7 **Town** Madison

Christina Coric **Grade** 7 **Town** Madison

Madison Our Lady of Mercy School Mr. Supik

2510 L8 3 Viscosity and Nutritional Value

Student(s) Sarah Stephens **Grade** 8 **Town** Madison

Madison Our Lady of Mercy School Mr. Supik

5053 P7 1 Which Wheat Flour Has the Most Gluten?

Student(s) Allison Tuttle **Grade** 7 **Town** Killingworth

Manchester Assumption School Sister Loreto

5529 P8 2 Impact of Angular Positions for Basketball Bank Shots

Student(s) Michael Hills **Grade** 8 **Town** Bolton

Manchester Manchester High School Megan Rader

3011 LS 3 Bioremediation of Low Density Polyethylene with S. griseus Bacteria and A. niger Fungi in Sterilized Soil

Student(s) Nikki Pirtel **Grade** 12 **Town** Manchester

Manchester St. Bridget School Mrs. Kim Maysonet

5014 P7 2 Can The Weight of a Car be Accurately Weighed by Using an Air Pressure Gauge and a Ruler?

Student(s) Ashleigh Purcell **Grade** 7 **Town** Manchester

Manchester St. Bridget School Mrs. Maysonet

2022 L7 3 Which insulated bag lasts the longest?

Student(s) Danielle Savino **Grade** 7 **Town** South Windsor

Meriden St. Joseph School Mrs. Perolotti

5524 P8 2 Are soccer balls affected by air pressure?

Student(s) Riley Carey **Grade** 8 **Town** Durham

Meriden St. Joseph School Sarah Pergolotti

5532 P8 3 Can Humans Distinguish What an Object is Just by Feel?

Student(s) Shannon Carey **Grade** 8 **Town** Durham

Conn. Science & Engineering Fair

Preliminary Judging Results

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Meriden St. Joseph School Mrs. Pergolottie

2501	L8	2	Does a Person's Eye Color Affect Their Ability to Identify Colors in Dim Light?
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Student(s) Isabella Kunze **Grade 8** **Town** Meriden

Meriden St. Joseph School Mrs. Pergolotti

2002	L7	3	How does Caffeine affect the growth of plants?
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Student(s) Michael Mysatyukow **Grade 7** **Town** Meriden

Meriden St. Joseph School Pergolotti

5061	P7	3	Bubble Blowing
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Student(s) Natalie Scotto **Grade 7** **Town** Meriden

Meriden St. Joseph School Sarah Pergolotti

5544	P8	3	Does highlighting facts in a paper help people comprehend better
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Student(s) Ashley Suzio **Grade 8** **Town** Meriden

Meriden St. Joseph School Sarah Pergolotti

5025	P7	3	Can You Taste the Difference Between tap and spring water?
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Student(s) Alexis Wozdusiewicz **Grade 7** **Town** Meriden

Middletown Middletown High School Roberta Downer

6508	PST	3	What Is "Good Music?"
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Student(s) Saket Pandit **Grade 12** **Town** Middletown
Kendar Serindag **Grade 12** **Town** Middletown

Middletown Xavier High School Mr. David Applegate

6504	PST	2	An investigation on the effects of radiation emitted from the three most popular mobile phone operating systems.
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Student(s) Evan Rigsby **Grade 11** **Town** Kensington
Christopher Yerxa **Grade 11** **Town** Guilford

Milford St. Gabriel School Campbell

5051	P7	2	Which Bridge Design Is Best?
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Student(s) Griffin Congdon **Grade 7** **Town** Milford

Milford St. Gabriel School Mr. John Campbell

2526	L8	2	One Sticky Situation
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Student(s) Aidan Conway **Grade 8** **Town** Milford

Milford St. Gabriel School Campbell

2542	L8	3	Think Before You Drink Analysis of the impact of drinking popular soft drinks on our body.
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Student(s) Brian LoCicero **Grade 8** **Town** Milford

Milford St. Gabriel School John Campbell

5028	P7	3	Which Metal Will Corrode the Fastest?
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Student(s) Luke McDonald **Grade 7** **Town** Milford

Milford St. Gabriel School Mr. John Campbell

5561	P8	3	Fireplaces - To Heat Or Not To Heat, That Is The Question!
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Student(s) Spencer Mehan **Grade 8** **Town** Milford

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Milford St. Gabriel School Campbell

5041	P7	3	Free Energy
Student(s) Ethan Wicko			Grade 7 Town Milford

New Britain St. John Paul II School Jennifer Nypert

5533	P8	3	How Fast Can A Human Solve the Rubik's Cube
Student(s) Lukasz Burkacki			Grade 8 Town New Britain

New Britain St. John Paul II School Jennifer Nypert

5060	P7	3	Ice Matters
Student(s) Connor Olson			Grade 7 Town New Britain

New Haven Betsy Ross Arts Magnet School Ms. Macdonald

5027	P7	3	How common acidic solutions affect the rate of corrosion of brass.
Student(s) Amanee Amin			Grade 7 Town West Haven

New Haven Betsy Ross Arts Magnet School Roisin Macdonald

2515	L8	2	The Impact of Acid Rain on the Flora of the Environment
Student(s) Kaitlyn Caple			Grade 8 Town Ansonia

New Haven Betsy Ross Arts Magnet School Ms. Macdonald

2013	L7	3	What is TDS? Are you drinking it?!
Student(s) Gabby DePino			Grade 7 Town West Haven

New Haven Betsy Ross Arts Magnet School Laggis

2508	L8	2	Hand Hygiene Effectiveness in Reducing the Number of Bacterial Colonies.
Student(s) Aimee Turcotte			Grade 8 Town Milford

New Haven Davis Street Interdistrict Magnet School Cora Johnson

5564	P8	3	Can you change the rate of a chemical reaction by changing the particle size of the reactants?
Student(s) Tanayja London			Grade 8 Town Branford

New Haven Engineering & Science University Magnet School Roger Rushworth

2535	L8	2	Optimizing Methane Oxidation by Methanotrophs Through the Engineering Application of Different Environments
Student(s) Jacob Feuerstein			Grade 8 Town Woodbridge

New Haven Engineering & Science University Magnet School Roger Rushworth

3103	LS	3	Natural vs. Chemical Cleaners
Student(s) Saimanasa Juluru			Grade 9 Town Milford

New Haven Engineering & Science University Magnet School Mr. Roger L. Rushworth

2521	L8	3	Electric Energy Production In A Bio-fuel Cell For Varying Electrogenic Microbial Samples
Student(s) Sumanth Kondapalli			Grade 8 Town Milford

New Haven Engineering & Science University Magnet School Heather Toothaker

3124	LS	1	The Optimization of Conditions for an Enzymatic Bio-Battery
Student(s) Lauren Low			Grade 10 Town Hamden

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New Haven Engineering & Science University Magnet School Mr. Roger Rushworth
5528 P8 1 Efficiency of Piezoelectric Materials for Electric Production
Student(s) Prastik Mohanraj **Grade 8** **Town** Ansonia

New Haven Engineering & Science University Magnet School Mr. Rushworth
5020 P7 3 Self-Inflating Balloons
Student(s) James Rodrigues **Grade 7** **Town** Milford

New Haven St. Aedan-St. Brendan Catholic School Michael celentano
5013 P7 3 Build a raft powered by surface tension
Student(s) Rehab Senanu **Grade 7** **Town** New haven

New Haven St. Aedan-St. Brendan Catholic School Mr. Michael Celentano
5005 P7 2 Parachutes: Does Size Matter?
Student(s) Jeremiah Vidal **Grade 7** **Town** New Haven

New Haven Wilbur Cross High School Julia Rodi
3018 LS 3 Exploring strategies for improved calcium and phosphate compatibilities in parenteral nutrition.
Student(s) Maya Geradi **Grade 9** **Town** New Haven

New Haven Worthington Hooker Middle School Douglas Jones
2001 L7 2 The Effects of Wi-fi on Plant Growth
Student(s) Michael Bencivengo **Grade 7** **Town** New Haven

New Haven Worthington Hooker Middle School mr. Jones
5006 P7 2 A Test of Batteries
Student(s) Albert Glowacki **Grade 7** **Town** New Haven

New Haven Worthington Hooker Middle School Douglas Jones
4022 PT 2 A science fair project on how a trebuchets arm length affects the projectile distance.
Student(s) Musa Hussain **Grade 8** **Town** New Haven
Minjae Ko **Grade 8** **Town** New Haven

New Haven Worthington Hooker Middle School Mr.Jones
4018 PT 2 Raining Rust Causing Corrosion
Student(s) Audrey Knight **Grade 8** **Town** New Haven
Kateryna Omelchenko **Grade 8** **Town** New Haven

New Haven Worthington Hooker Middle School Mr. Jones
2012 L7 2 Frozen vs. Fresh
Student(s) Lena MacDonald **Grade 7** **Town** New Haven

New Haven Worthington Hooker Middle School Mr. Jones
2035 L7 3 As Temperature Goes, Yeast Grows
Student(s) Juliette Ranelli **Grade 7** **Town** New Haven

New Haven Worthington Hooker Middle School Douglas Jones
4001 PT 1 The Hard Truth About Water Hardness: Which body of water is the healthiest (in Water Hardness)?
Student(s) Jake Wang **Grade 8** **Town** New Haven
George Wang **Grade 8** **Town** New Haven

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New London Science & Technology Magnet HS of SE CT Charles Mulligan

3516 LST 2 The Effect of Soil Alkalinity on the Lycopersicon Esculentum (plum tomato)

Student(s) Aidan Brennan **Grade** 9 **Town** New London
Talon Close **Grade** 10 **Town** East Haddam

New London Science & Technology Magnet HS of SE CT Charles Mulligan

3521 LST 3 The Effect of pH Levels in Presoaking Liquids on Fruit Dehydration Duration

Student(s) Brynn Doughty **Grade** 10 **Town** Ledyard
Leslie Abreu **Grade** 10 **Town** New London

New London Science & Technology Magnet HS of SE CT Mr. Mulligan

3523 LST 3 The Thermal Stress Of A Coenbita Clypeatus(Land Hermit Crab)

Student(s) Precious Ehwarime **Grade** 10 **Town** Norwich
Sigfredo Hidalgo **Grade** 10 **Town** Groton

New London Science & Technology Magnet HS of SE CT Charles Mulligan

3509 LST 3 The Effects of Seed Priming

Student(s) Sylvia Guijarro-Sines **Grade** 10 **Town** New London
Maeve Pierce **Grade** 10 **Town** New London

New London Science & Technology Magnet HS of SE CT Mr. Mulligan

3105 LS 3 The effect of nitrate uptake in aquatic plants with varying nitrate exposure.

Student(s) Katie Hanrahan **Grade** 10 **Town** New London

New London Science & Technology Magnet HS of SE CT Charles Mulligan

3511 LST 3 The Behavioral Effect of Molting Patterns in Hermit Crabs

Student(s) Jacqueline Kral **Grade** 10 **Town** Lisbon
Geraldine Chirieleison **Grade** 10 **Town** Norwich

New London Science & Technology Magnet HS of SE CT Mr. Mulligan

3519 LST 3 The Effect of Reduced pH on Submerged Aquatic Vegetation

Student(s) Chloe Murphy **Grade** 10 **Town** New London
Caroline Tanner **Grade** 10 **Town** New London

New London Science & Technology Magnet HS of SE CT Charles Mulligan

6031 PS 3 Biodiesel: The Fuel of the Future

Student(s) Woodrich Pierre-Louis **Grade** 10 **Town** New London

New London Science & Technology Magnet HS of SE CT Charles Mulligan

6502 PST 3 Heat Retention

Student(s) Robert Pilj **Grade** 10 **Town** New London
Jogaintz Ledoux **Grade** 10 **Town** New London

New London Science & Technology Magnet HS of SE CT Mr. Mulligan

3503 LST 3 The Effect of the Angle of Solar Radiation on Plant Growth

Student(s) Pariya Prama **Grade** 10 **Town** Waterford
Princesse-Lola Omotosho **Grade** 10 **Town** New London

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New London Science & Technology Magnet HS of SE CT Charles Mulligan

3513 LST 3 The Effect of Prescribed Burns on Soil Nutrients

Student(s) Deven-Leigh Rafuse

Grade 10 **Town** Norwich

Jane Coates

Grade 10 **Town** Mystic

New London Science & Technology Magnet HS of SE CT Mr. Mulligan

6510 PST 3 3D Animation and Ebola

Student(s) Trenton Robledo-Thompson

Grade 10 **Town** New London

John Madden

Grade 10 **Town** New London

New London Science & Technology Magnet HS of SE CT Charles Mulligan

3525 LST 3 The Effects of Aspirin on Pisum sativum var. saccharatum

Student(s) Alysia Sanchez

Grade 10 **Town** New London

Dahyir Croft

Grade 10 **Town** New London

New London Science & Technology Magnet HS of SE CT Mr. Mulligan

3093 LS 2 The Affect of Ocean Acidification on Nannochloropsis sp.

Student(s) Chloe Sherman-Watson

Grade 10 **Town** New London

New London Science & Technology Magnet HS of SE CT Chuck Mulligan

3506 LST 3 Plant Growth Research

Student(s) Nate Skrabacz

Grade 10 **Town** New London

D. Major Roman

Grade 10 **Town** New London

New London Science & Technology Magnet HS of SE CT Charles Mulligan

3108 LS 3 The Effects of Different Environments on the Germination of Radish Seeds

Student(s) Samantha Sprecaze

Grade 10 **Town** New London

New Milford New Milford High School Eric Hansell

3016 LS 3 The Carbon Dioxide Sequestration of Lawn Plants

Student(s) Gregory Hansell

Grade 12 **Town** New Milford

Newington Martin Kellogg Middle School Mrs. Blustein

4034 PT 3 The Designing and Testing of a Self-Constructed Aircraft

Student(s) Michael Stamm

Grade 8 **Town** Newington

Patrick Nguyen

Grade 8 **Town** Newington

Anthony Carlson

Grade 8 **Town** Newington

Newington St. Mary School Mrs. Giantonio

2009 L7 3 What liquid germinates seeds the fastest?

Student(s) Michelle Diccio

Grade 7 **Town** New. Britain

Newington St. Mary School Debbie Giantonio

5566 P8 2 Can Common Household Cleaning Products Be Used As Makeshift Stain Removers?

Student(s) Kate Morelli

Grade 8 **Town** New Britain

Newtown Newtown Middle School Mrs. Andracchi

5565 P8 1 The Universal Soccer Shoe

Student(s) Miles Martiska

Grade 8 **Town** Newtown

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Newtown St. Rose of Lima School Mrs. Marde Dimon

2024	L7	1	The Effects of Cell Phones on Narcissus Papyraceus Growth and Color
Student(s) Michael Bachmann			Grade 7 Town Redding

Newtown St. Rose of Lima School Mrs. Dimon

2011	L7	2	The Effect of Acid Rain on the Growth of Tennessee Green Pod Bean Plants
Student(s) Sabrina Capodicci			Grade 7 Town Southbury

Newtown St. Rose of Lima School Marde Dimon

5052	P7	3	Does the Number of Fins on a Rocket Effect How Long It Stays in the Air?
Student(s) Nathan Erdtmann			Grade 7 Town Roxbury

Newtown St. Rose of Lima School Marde Dimon

2031	L7	3	Hypoxia in Long Island Sound
Student(s) Carla Fabrizio			Grade 7 Town Monroe

Newtown St. Rose of Lima School Mardi Dimon

2524	L8	1	An Investigation of the Ingestion of Microscopic Plastic Particles by the Blue Mussel, Mytilus edulis
Student(s) Catherine Herrick			Grade 8 Town Sandy Hook

Newtown St. Rose of Lima School Mrs. Marde Dimon

5016	P7	2	The Effect of Water Depth and Beach Surface on the Onshore Height of a Tsunami
Student(s) Hunter Kirkman			Grade 7 Town Sandy Hook

Newtown St. Rose of Lima School Mrs. Dimon

5031	P7	2	Design and Build a working Hovercraft
Student(s) Adam Kliczewski			Grade 7 Town Newtown

Newtown St. Rose of Lima School Marde Dimon

5036	P7	1	The Amount of Critical Mass Needed to Make a Sustainable Chain Reaction
Student(s) Mary Locke			Grade 7 Town Sandy Hook

Newtown St. Rose of Lima School Marde Dimon

5042	P7	3	Drone for Science
Student(s) John Queenan			Grade 7 Town Southbury

Newtown St. Rose of Lima School Marde Dimon

2003	L7	3	The Effect of pH Level on the Growth of Algae
Student(s) Natalene Sim			Grade 7 Town Newtown

North Haven North Haven Middle School Mrs. Jasinski

1021	LT	3	The relation of time that was spent studying compared to the amount of preformed accuracy on a quiz.
Student(s) Tyler Karasinski			Grade 7 Town North Haven
Stephen Borrelli			Grade 7 Town North Haven

North Haven North Haven Middle School Susan Jasinski

1018	LT	3	The relationship between font style and peoples' ability to remember typed information.
Student(s) Isabella Morizio			Grade 7 Town North Haven
Christina DeAngelo			Grade 7 Town North Haven
Colleen Lucey			Grade 7 Town North Haven

Conn. Science & Engineering Fair

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North Haven North Haven Middle School Susan Jasinski

1001 LT 3 The Effect of Different Liquids on Plant Growth

Student(s) Rahi Patel **Grade 7** **Town** North Haven
Cecile Tobin **Grade 7** **Town** North Haven
Anna Wootton **Grade 7** **Town** North Haven

North Haven North Haven Middle School Susan Jasinski

1011 LT 3 How Languages Affect Cognitive Ability

Student(s) Matthew Wabunoha **Grade 7** **Town** North Haven
Timothy Yang **Grade 7** **Town** North Haven
Laekhrum Singh **Grade 7** **Town** North Haven

Norwalk The Montessori Middle School Cara Roure Johnson

2025 L7 2 Have Your Bread and Eat it Too

Student(s) Magnus Ekstrom **Grade 7** **Town** Stamford

Norwalk The Montessori Middle School Cara Roure Johnson

2032 L7 3 Weed Control: Walnuts to the Rescue!

Student(s) Alexander Forsyth **Grade 7** **Town** Darien

Norwalk The Montessori Middle School Cara Roure Johnson

5546 P8 3 Is Your House Radioactive?

Student(s) Saira Munshani **Grade 8** **Town** Easton

Norwalk The Montessori Middle School Patricia Clahar

5010 P7 2 Which is Better for the Garden? Aspirin vs. Super Thrive

Student(s) Madison Tomas **Grade 7** **Town** Wilton

Norwich Norwich Free Academy Mrs. Stephani Jones

3004 LS 3 A Comparison of the Efficacy of Genomic Loci and Oligonucleotide Systems in the DNA Barcoding of Vitis Labrusca

Student(s) Connor Provost **Grade 11** **Town** Bozrah

Norwich Norwich Free Academy Stephani Jones

6056 PS 1 A Field Study Analysis of Carbon Fiber Electrode Weaves and Conductors in the Design of Sedimentary Microbial Fuel Cells

Student(s) Katie Provost **Grade 9** **Town** Bozrah

Orange Amity Reg Middle School, Orange Campus Mr. Tom Foley

5558 P8 2 The Effects of Acid Rain on Magnetism

Student(s) Mounisha Anumolu **Grade 8** **Town** Orange

Orange Amity Reg Middle School, Orange Campus Thomas Foley

5537 P8 3 The Effect of Processing on the Vitamin C Content of Orange Juice

Student(s) Alexandra Bonat **Grade 8** **Town** Orange

Orange Amity Reg Middle School, Orange Campus Tom Foley

5543 P8 2 The Performance of Greener Alternatives vs. Standard Hydraulics Fluid

Student(s) Lien Har **Grade 8** **Town** Orange

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Orange Amity Reg Middle School, Orange Campus Mr. Dahn/Foley
5547 P8 3 How Everyday Substances Affect the Freezing Point of Water
Student(s) Arianna Pargen **Grade 8** **Town** Orange

Orange Amity Reg Middle School, Orange Campus Mr. Foley
5508 P8 2 The effects of cloud coverage on the out put of solar panels
Student(s) Garrett Young **Grade 8** **Town** Orange

Orange Southern CT Hebrew Academy Karen Howell
5512 P8 2 Design, build and program a robot using an Arduino Mega 2560 R3 through an Android app to cheer up or relax children at a hospital
Student(s) Ben Bruder **Grade 8** **Town** New Haven

Orange Southern CT Hebrew Academy Karen Howell
1016 LT 1 Analysis of Silicon's Effect On Bone Health, "Cell" Bioavailability, and "Skin" Absorption.
Student(s) Miriam Kantor **Grade 8** **Town** Westport
Chana Katz **Grade 8** **Town** New Haven

Orange Southern CT Hebrew Academy Karen Howell
2511 L8 3 Analysis of Increased CO2 levels in Ocean water and Effect on Crustaceans' and Bivalves' Growth
Student(s) Adina Katz **Grade 8** **Town** New Haven

Orange Southern CT Hebrew Academy Mrs. Karen Howell
4019 PT 1 Analysis of the Extraction of Proteins from Under Utilized Resources and Their Nutrient and Bioavailability Values
Student(s) Batya Koenigsberg **Grade 8** **Town** New Haven
Breindel Piekarski **Grade 8** **Town** Hamden

Orange Southern CT Hebrew Academy Karen Howell
4010 PT 1 Analysis of Nature's Digestive Enzymes and Effect of Inhibitors and Enhancers on Nutrition and Cell Absorption.
Student(s) Esther Lipsker **Grade 8** **Town** Stamford
Chana Kalmanson **Grade 8** **Town** New Haven

Orange Southern CT Hebrew Academy Karen Howell
4003 PT 1 Analysis of Safer Electroplating Metals and Electrolyte solutions with their Environmental Impact
Student(s) Meira Shleifer **Grade 8** **Town** Waterbury
Zahava Klein **Grade 8** **Town** New Haven

Orange Southern CT Hebrew Academy Karen Howell
2516 L8 1 Effects of different levels of electromagnetic fields on a variety of grasses and their nutrient content
Student(s) Ariella Snyder **Grade 8** **Town** West Hartford

Orange Southern CT Hebrew Academy Karen Howell
1008 LT 1 Analysis of Moisture and Retention of Body Lotions and Correlation to Microbial Growth
Student(s) Sarah Yaffe **Grade 7** **Town** Madison
Mindel Yaffe **Grade 7** **Town** Madison

Oxford Oxford High School Kristine Scheuer
3028 LS 3 acid rain prevention
Student(s) Catherine Davis **Grade 12** **Town** Oxford

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Oxford Oxford High School Mrs. Scheuerk
3130 LS 3 Ultraviolet Bacterial Eradication Using Low Cost Light Emitting Diodes
Student(s) Tyler Fallas **Grade** 12 **Town** Oxford

Oxford Oxford High School Mrs. Scheuer
6030 PS 1 Electrically Independent, Low Cost, Self-Filling Water Bottle for use in Water Locked Regions
Student(s) Zachary Frew **Grade** 12 **Town** Oxford

Oxford Oxford High School Mrs. Scheuer
3127 LS 3 Making a Portable, Low Cost Hydroponics System
Student(s) Sviatoslav Kit **Grade** 10 **Town** Oxford

Oxford Oxford High School Mrs. Scheur
3064 LS 3 The Effectiveness of Homeopathic Antibiotics Versus Pharmaceutical Antibodies on the eradication of E. Coli.
Student(s) Noah Lisewski **Grade** 12 **Town** Oxford

Oxford Oxford High School Ms.Scheuer
3012 LS 3 The Effect of pH on DNA Isolation
Student(s) Shannen Parker **Grade** 9 **Town** Oxford

Oxford Oxford High School Ms. Scheuer
6028 PS 3 An analysis of particle-driven physics simulations when compared with entity-driven simulations
Student(s) Dylan Ramsay **Grade** 12 **Town** Oxford

Pawcatuck St. Michael School Michael DeNoia
5548 P8 2 Making Music Louder Without Electricity
Student(s) Drew Babineau **Grade** 8 **Town** Charlestown

Pawcatuck St. Michael School Michael DeNoia
2033 L7 2 Why Did The chicken Cross The Road?
Student(s) Kathryn Logel **Grade** 7 **Town** Pawcatuck

Pawcatuck St. Michael School Michael Denoia
5044 P7 2 What is the most effective treatment for melting ice?
Student(s) Sean Peglow **Grade** 7 **Town** Old Mystic

Pawcatuck St. Michael School Michael DeNoia
2520 L8 2 Effects of Mnemonic Methods on Memory
Student(s) Kyle R Emmert **Grade** 8 **Town** Pawcatuck

Plantsville J.F. Kennedy Middle School Mrs. Pepin
5517 P8 2 Burning Biofuels: An Alternate Form of Energy
Student(s) Mary Bilodeau **Grade** 8 **Town** Plantsville

Plantsville J.F. Kennedy Middle School Pamela Pepin
1020 LT 3 Got White?-Which toothpaste will whiten the best on stained limestone tiles?
Student(s) Tara Brock **Grade** 7 **Town** Southington
Hannah Sousa **Grade** 7 **Town** Southington

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Plantsville J.F. Kennedy Middle School Mrs. Maringola

4015 PT 2 Ramps, Textures, and Cars, Oh My!

Student(s) Sarah Falcetti

Grade 7 Town Plantsville

Kiraly Wadman

Grade 7 Town Southington

Plantsville J.F. Kennedy Middle School Mrs. Wasserman

1013 LT 3 Gas Released by Yeast

Student(s) Julia Jackman

Grade 8 Town Southington

Sarah Mathew

Grade 8 Town Southington

Plantsville J.F. Kennedy Middle School Mr Cipollini

4026 PT 2 Structure Vs Nature: The Effect of Landslide Duration on Different House Structures

Student(s) Mia Langston

Grade 8 Town Southington

Abigail Lo Presti

Grade 8 Town Plantsville

Plantsville J.F. Kennedy Middle School Mrs. Pepin

2010 L7 1 "Pore" My Way to Cleaner Water: The use of flocculants and porous ceramic pots for purifying drinking water in developing countries

Student(s) Matthew Maciejewski

Grade 7 Town Plantsville

Plantsville J.F. Kennedy Middle School Mrs. Marongolia

5063 P7 1 How Accurate can your Local Weather Applications Be?

Student(s) Trevor Messina

Grade 7 Town Southington

Plantsville J.F. Kennedy Middle School Mrs. Pepin

2518 L8 1 Nutrient Comparison of Lettuce Grown Hydroponically and in Soil

Student(s) Hannah Platt

Grade 8 Town Southington

Putnam Putnam Science Academy Serdar Haytiyev

3504 LST 2 Maintaining a Better Society by Decreasing CO2 Levels Through the Growth of Large Trees and Plants

Student(s) Ahmet Akarsu

Grade 11 Town Putnam

Kerven Saryyev

Grade 11 Town Putnam

Putnam Putnam Science Academy Serdar Haytiyev

3518 LST 3 Using Fall Foliage as an Alternative for Paper Production to Reduce Deforestation

Student(s) Omer Aydin

Grade 11 Town Putnam

Yunus Demirkol

Grade 11 Town Putnam

Mehmet Coskun

Grade 11 Town Putnam

Putnam Putnam Science Academy Serdar Haytiyev

6503 PST 1 Designing a High Efficiency and Low Cost Wind Turbines bu Utilizing Organic Solar Panels made from Rosa Canina

Student(s) Cagri Aytekin

Grade 12 Town Putnam

Furkan Sahin

Grade 10 Town Putnam

Furkan Aldemir

Grade 11 Town Putnam

Putnam Putnam Science Academy Owen Quantick

3024 LS 2 Effect of Brine Concentration on Wettability on Atomisticly Smooth Surfaces

Student(s) Hacibey Catalbasoglu

Grade 12 Town Putnam

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Putnam Putnam Science Academy Serdar Haytiyev

3507 LST 1 Use of Saccharomyces Cerevisiae and Biosorption in the Purification of Industrially Polluted Waters

Student(s) Enes Cicek **Grade** 11 **Town** Putnam
Murat Acar **Grade** 10 **Town** Putnam
Amir Edris **Grade** 10 **Town** Putnam

Putnam Putnam Science Academy Serdar Haytiyev

6507 PST 1 Environmentally Friendly and Low Cost Usage of Naturally Extracted Dyes from Organic Materials to Produce Renewable Energy at Efficient Rates

Student(s) Ahmet Sirrik **Grade** 11 **Town** Putnam
Tarik Kesen **Grade** 11 **Town** Putnam
Ali Akcaker **Grade** 11 **Town** Putnam

Putnam Putnam Science Academy Caron Quantick

3520 LST 1 A Natural Way to Keep Insects Away by Using Various Essential Plant Oils as an Organic Insect Repellent

Student(s) Omer Tekin **Grade** 12 **Town** Putnam
Abidin Emhan **Grade** 12 **Town** Putnam
Taha Cangoz **Grade** 12 **Town** Putnam

Putnam Putnam Science Academy Serdar Haytiyev

6071 PS 1 Designing a Braille E-Book For the Visually Impaired and Blind People

Student(s) Abdulkadir Yilmaz **Grade** 11 **Town** Putnam

Redding Joel Barlow High School Dr. Katherine Nuzzo

6046 PS 2 Sequestration of Carbon Dioxide by Lithium Orthosilicate in a Clay Body in Ambient Air

Student(s) Lia Bozzone **Grade** 11 **Town** West Redding

Redding Joel Barlow High School Catherine Cheng

3066 LS 3 Calories consumed during lunch by students from the Joel Barlow HS cafeteria compared to their GPA

Student(s) Benjamin El-wardany **Grade** 9 **Town** Easton

Redding Joel Barlow High School Dr. Katherine Nuzzo

3035 LS 3 Global Climate Change Affects the Ecosystem by Elevating Carbon and Nitrogen Emissions which Increases Allergies

Student(s) Alyssa Gontzes **Grade** 12 **Town** Redding

Redding Joel Barlow High School Dr. Katherine Nuzzo

3087 LS 3 Natural Dye Treatments of Gossypium hirsutum using several Naturopathic sources in combination with the mordant of Aluminum Potassium Sulfate

Student(s) Devon Grey **Grade** 11 **Town** Redding

Redding Joel Barlow High School Dr. Katherine Nuzzo

6098 PS 1 The Development of an Immunosorbant Assay (ELISA) for detection of IgG and IgA antibodies against Tissue Transglutaminase for the diagnosis of Celiac disease.

Student(s) Andrea McGowan **Grade** 12 **Town** Redding

Redding Joel Barlow High School Dr. Katherine Nuzzo

6088 PS 2 Impact of the manipulation of the viscosity of ethanol on the particulate matter output and the efficiency of combustion.

Student(s) John Mulcahy **Grade** 11 **Town** Redding

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Redding Joel Barlow High School Dr. Katherine Nuzzo

6007 PS 1 The effect of snow and ice thickness on the winter respiration Carbon Dioxide output

Student(s) Justin Pusztay

Grade 11 **Town** Easton

Redding Joel Barlow High School Katherine Nuzzo

6021 PS 2 Measuring the Feasibility of an In-Home In Situ Carbonation Device Utilizing Calcium Rich Basalt

Student(s) Justin Schachter

Grade 11 **Town** Redding

Redding Joel Barlow High School Dr. Katherine Nuzzo

6059 PS 2 A Statistical Analysis on the Effects of Volcanic Sulfate Emissions on Precipitation Patterns as Analogue for Geoengineering

Student(s) Megan Siedman

Grade 11 **Town** Redding

Redding Joel Barlow High School Dr. Katherine Nuzzo

3081 LS 2 The Effect of Gut Denitrification of Dressina polymorpha on the Nitrate and Nitrite Availability in the Freshwater System of Eichler's Cove, Newtown

Student(s) Gillian Storey

Grade 11 **Town** Redding

Redding Joel Barlow High School Katherine Nuzzo

3133 LS 2 Zostera marina's Effect on Carbon Dioxide Levels in Long Island Sound and Predicted Effects

Student(s) Nathaniel Tomczak

Grade 11 **Town** Easton

Redding Joel Barlow High School Katherine Nuzzo

3015 LS 3 The Effects of Sulfur Dioxide on Solanum lycopersicum subsp. Tiny Tim and Soil pH in Varying Temperatures

Student(s) Hannah Villhauer

Grade 12 **Town** Redding

Redding SCSEF - Amity Regional High School Deborah Day

3085 LS 2 Applying the Friendship Paradox to Trends within the High School Population

Student(s) Julia Nadelmann

Grade 10 **Town** Woodbridge

Redding SCSEF - Amity Regional High School Ms. Deborah Day

6055 PS 2 A Novel Method of Controlling Size of Carbon Nanotubes

Student(s) Joseph Neumann

Grade 12 **Town** Woodbridge

Redding SCSEF - Old Saybrook Senior High School Kellie Sutliff-Brady

3075 LS 2 Elevated Levels Of Interleukin-8 in Non-Small Cell Lung Cancers induce Cell Survival During Chemotherapy

Student(s) Andrew Pan

Grade 12 **Town** Old Saybrook

Redding SCSEF - Ridgefield High School Michael Yagid

6040 PS 2 Gender-Specific Copepod Susceptibility to Phytoplankton Neurotoxins at Various Concentrations

Student(s) Lily Meyers

Grade 12 **Town** Ridgefield

Ridgefield Ridgefield High School Michael Yagid

6086 PS 2 Maximization of the Profit of a Large, Prestigious University in the Presence of a State University

Student(s) Adam Davidovich

Grade 12 **Town** Ridgefield

Ridgefield Ridgefield High School Patrick Hughes

6047 PS 2 The Effect of Different Checkerboard Sizes on Steady State Visually Evoked Potentials

Student(s) Randy Deng

Grade 12 **Town** Ridgefield

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Salisbury Salisbury School Tobias Ayer
6014 PS 3 The physics of the space elevator construction.
Student(s) Kyungmin Lee **Grade** 11 **Town** Salisbury

Sandy Hook Newtown High school Timothy DeJulio
6105 PS 2 3D Printer for Creating Domestic Utilities for Developing Countries
Student(s) David Corsi **Grade** 12 **Town** Sandy Hook

Sandy Hook Newtown High school Tim DeJulio
6003 PS 2 Boiling Water with Nano Particles.
Student(s) Christopher Gamble **Grade** 12 **Town** Newtown

Shelton Shelton High School Christine McNamara
3502 LST 3 Temperature Rising: Exhausted Efforts
Student(s) Marta Brzostowska **Grade** 12 **Town** Shelton
Gina Ciambriello **Grade** 12 **Town** Shelton

Shelton Shelton High School Dr. Tosca Rivera
6058 PS 2 Move Over Opec/Oil from Biomass
Student(s) James Peck **Grade** 10 **Town** Shelton

Shelton Shelton High School Mr. Goddard
3062 LS 2 The Effect of Osmotic Pressure on Gram-Positive and Gram-Negative Bacteria
Student(s) Veina Pillai **Grade** 12 **Town** Shelton

Shelton Shelton High School Kathleen Hayes
3001 LS 3 A Natural Fighter Against E. Coli
Student(s) Alyson Shaw **Grade** 11 **Town** Shelton

Shelton Shelton High School Mr. Charles Fowler
3083 LS 3 Magic Magnets
Student(s) Deloshene Sittambalam **Grade** 9 **Town** Shelton

Shelton Shelton Intermediate School Mrs. Genova
5539 P8 2 Weather Conditions And Its Effect On Football Pressure.
Student(s) Andrew Cortes **Grade** 8 **Town** Shelton

Shelton Shelton Intermediate School Genova
4016 PT 2 What is the Best Ice Insulator?
Student(s) Hailey Greenleaf **Grade** 7 **Town** Shelton
Bridgette Kline **Grade** 7 **Town** Shelton

Shelton Shelton Intermediate School Mrs. Genova
5058 P7 2 The Voltage Changes from Different Wavelength Radiations on a Solar Panel
Student(s) Siddharth Jain **Grade** 7 **Town** Shelton

Shelton St. Joseph School Kieran Hyland
5008 P7 2 Crossing the Gap... But With What?
Student(s) Ethan Novicio **Grade** 7 **Town** Shelton

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Shelton St. Joseph School Mr Kieran Hyland

5521 P8 3 Zap That Zit

Student(s) Shelby Plotkin **Grade** 8 **Town** Seymour

Simsbury Independent - Simsbury High School Danny Martins

6004 PS 1 The Effects of Thickness of Steel, Ball Bearing Size, and Drop Height of Ball Bearing During Dent Resistance Testing on Galvanized Steel versus Aluminum-Alloy.

Student(s) Rachel Baumann **Grade** 10 **Town** West Simsbury

Southington J.A. DePaolo Middle School Mrs. Shea

2023 L7 3 The Microwave: Is It Safe For Life?

Student(s) Betul Agirman **Grade** 7 **Town** Southington

Southington J.A. DePaolo Middle School Mrs. Shea

4030 PT 2 To Melt or Not To Melt: Using Natural Materials As Insulators

Student(s) Jonathan Breski **Grade** 7 **Town** Southington

Chris Chaplinsky **Grade** 7 **Town** Southington

Southington J.A. DePaolo Middle School Shea

4014 PT 2 Hydroelectric Energy

Student(s) Evan DeSandre **Grade** 7 **Town** Southington

Ryan Asido **Grade** 7 **Town** Southington

Southington J.A. DePaolo Middle School Mrs. Shea

5062 P7 2 Paper Chromatography: The Science of Color Separation

Student(s) Delaney Farr **Grade** 7 **Town** Southington

Southington J.A. DePaolo Middle School Ms. Shay

4027 PT 2 Shape Affects Speed

Student(s) Jessica Griffin **Grade** 8 **Town** Southington

Olivia Sherwood **Grade** 8 **Town** Southington

Southington J.A. DePaolo Middle School Mrs. Shea

1015 LT 3 Softening Sweets

Student(s) Avery Korp **Grade** 7 **Town** Southington

Megan Mikosz **Grade** 7 **Town** Southington

Southington J.A. DePaolo Middle School Mrs. Shea

2004 L7 3 Diffusion Confusion: Which Liquid Does Blue Food Coloring Diffuse The Fastest In

Student(s) Sarah McAuliffe **Grade** 7 **Town** Southington

Southington St. Thomas School Mrs. Pauline Pelczar

5559 P8 3 Soaking it Up?

Student(s) Dennis Cawley **Grade** 8 **Town** Southington

Stamford Bi-Cultural Day School Mr. Christopher Graseck

2017 L7 2 How Much Sugar is Needed for Bread to Raise the Most

Student(s) Shira Cohen **Grade** 7 **Town** Stamford

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Stamford Bi-Cultural Day School Mr. Chris Graseck

1014 LT 3 To Hatch or Not to Hatch: Brine Shrimp & Pollution

Student(s) Gabriel Dweck **Grade 7** **Town** Armonk
Andrew Ukhanov **Grade 7** **Town** Stamford

Stamford Bi-Cultural Day School Mr. Graseck

1010 LT 3 Which Liquid Prevents Oxidation?

Student(s) Maya Jubas **Grade 7** **Town** Stamford
Rina Marlowe **Grade 7** **Town** Stamford

Stamford Bi-Cultural Day School Chris Graseck

1017 LT 3 The Impact of Acidic Water on Germinating Mung Beans.

Student(s) Jordana Raich **Grade 7** **Town** Stamford
Tilly Chamberlain **Grade 7** **Town** Stamford

Storrs E.O. Smith High School Jon Swanson

3037 LS 1 The Effect of Iron Levels on Marine Algal Growth

Student(s) Luke Stover **Grade 10** **Town** Columbia

Stratford St. Mark School Michael McMahon

5059 P7 3 Relinquishing Rust

Student(s) Kelly DeRosa **Grade 7** **Town** Stratford

Stratford St. Mark School Mr. Michael McMahon

5545 P8 1 Using Induced Wind Force to Increase the Efficiency of an Electric Vehicle Battery

Student(s) Emily Fedor **Grade 8** **Town** Derby

Stratford St. Mark School Mr. Michael McMahon

5554 P8 2 How Substances Affect Tonic Water Glow

Student(s) Sophie Kirn **Grade 8** **Town** Stratford

Stratford St. Mark School Mr. Michael McMahon

5560 P8 1 Energy Scavenging--Proving the Seebeck Effect with a Homemade Thermoelectric Generator: A Source of Free, Sustainable, Low-Voltage Power

Student(s) Kristen Robertson **Grade 8** **Town** Stratford

Stratford St. Mark School Mr. Michael McMahon

2030 L7 2 A Photosynthesis Lab: The Effect of Light Intensity, Water Temperature, Colored Lights, and Contaminated Water on the Rate of Photosynthesis of the Aquatic Plant, Elodea Densa

Student(s) Natalie Sciallo **Grade 7** **Town** Stratford

Suffield Suffield High School Mitch Charkiewicz

6072 PS 3 Omni-Directional Maglev Cableless Elevator

Student(s) Lukas Baker **Grade 11** **Town** Suffield

Suffield Suffield High School Mitch Charkiewicz

6009 PS 3 An app to assimilate information during a presentation without note taking

Student(s) Madison D'Ostuni **Grade 10** **Town** Suffield

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Suffield Suffield High School Mr. Mitchell Charkiewicz
6075 PS 2 Energy Transfer Using Laser Power Beaming
Student(s) Joseph Howarth **Grade** 11 **Town** Suffield

Suffield Suffield High School Mitchell Charkiewicz
3501 LST 3 The Turbidity of Water Affects the Health of Aquatic Ecosystems
Student(s) Yash Mehta **Grade** 10 **Town** Suffield
Jason Werenski **Grade** 10 **Town** Suffield

Suffield Suffield High School Mitchell Charkiewicz
6081 PS 2 Reverse Osmosis Water Desalination Via the Harnessing of Perpetual Wave Energy
Student(s) Matthew Rogers **Grade** 11 **Town** Suffield

Suffield Suffield High School Mitch Charkiewicz
6505 PST 2 Determining the Effects of Different Products on Desalination
Student(s) Rachel Roncaioli **Grade** 10 **Town** Suffield
Katherine Baker **Grade** 10 **Town** Suffield
Caitlin Kirschbaum **Grade** 10 **Town** Suffield

Suffield Suffield High School Mitchell Charkiewicz
6020 PS 3 Printlet (combination between a printer and a tablet)
Student(s) Tyler Zolciak **Grade** 11 **Town** Suffield

Tolland Stonewall Academy Don Peck
6018 PS 2 A Novel Approach to Increase the Power Efficiency of a Wind Turbine with a Shroud and Diffuser Design
Student(s) Amelia Peck **Grade** 10 **Town** Tolland

Trumbull Christian Heritage School Mrs. Oshin
5509 P8 1 The Effect of Using Foam to Create a More Sophisticated Highway Barrier on Lessening the Spike of G-forces During an Impact
Student(s) Daniel Colgate **Grade** 8 **Town** Bridgeport

Trumbull Christian Heritage School Daniel Cote
6103 PS 2 Hardening of electronics and satellite communication systems from sunspots and coronal mass ejections
Student(s) Jiabei Jin **Grade** 11 **Town** Trumbull

Trumbull Christian Heritage School Mrs. Oshin
5513 P8 2 HOW TO INSULATE YOUR HOUSE AND REDUCE YOUR FUEL BILLS
Student(s) Garrett Kalker **Grade** 8 **Town** Monroe

Trumbull Christian Heritage School Daniel Cote
6094 PS 2 The refinement and production of bio-diesel derived from laboratory grown nannochloropsis algae
Student(s) Sarah Mack **Grade** 11 **Town** West Haven

Trumbull Christian Heritage School Mr. Daniel Cote
6022 PS 3 The Effect of Electric Charge on the pH of a Magnesium Sulfate Solution
Student(s) Catherine Reid **Grade** 11 **Town** Oxford

Trumbull Christian Heritage School Mrs Oshin
5549 P8 2 The Effect of Catapult Arm Length on the Distance the Projectile Travels
Student(s) Nicholas Rosselli **Grade** 8 **Town** Trumbull

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Trumbull Christian Heritage School Daniel Cote

3034	LS	3	The Effect of alcoholic, nicotinized, caffeinated, and adrenergic solutions on Arrhythmias
Student(s) Valeria Sarmiento			Grade 11 Town Norwalk

Wallingford Choate Rosemary Hall Rachel Gritzer

3112	LS	2	The Effect of Brain-Derived Neurotrophic Factor on Retinoic Acid Differentiated SH-SY5Y Cells: A Model for Striatal-Enriched Protein Tyrosine Phosphatase in Parkinson's Disease
Student(s) Archeta Rajagopalan			Grade 12 Town Glastonbury

Washington Shepaug Valley School Scott Werkhoven

3043	LS	2	The Spread of Zebra Mussels in Lake Lillinonah in 2013 and 2014
Student(s) Nadia Racz			Grade 9 Town Roxbury

Washington The Gunnery Steven Bailey

6077	PS	2	A Novel Solar Powered Photobioreactor Design for Waste Water Treatment and Producing Biofuel From Micro-Algae
Student(s) Grace Herrick			Grade 10 Town Sandy Hook

Watertown The Taft School Jim Lehner

3510	LST	3	The Designing and Application of the Single-Cell Immunoplex Device
Student(s) Leon Vortmeyer			Grade 11 Town New Haven
James Lee			Grade 11 Town Watertown

West Hartford Kingswood Oxford School Tim Allerton/Sheeba Zaidi

6041	PS	2	Using a Hydraulic System and a Heat-Induced Magnetic Adhesive to Create a Manipulatable Array that Increases the Efficiency of Piezoelectric Generators
Student(s) Humza Zaidi			Grade 9 Town Avon

West Hartford Solomon Schechter Day School Sue Prihar

2016	L7	1	Music and Memory
Student(s) Ariel Gordon			Grade 7 Town Woodbridge

West Hartford Solomon Schechter Day School Sue Prihar

2504	L8	2	The Cocktail Party Effect: An Inside Look at Multitasking
Student(s) Samara Gordon Wexler			Grade 8 Town West Hartford

West Hartford Solomon Schechter Day School Sue Prihar

2546	L8	1	The Effect of Brain Dominance on Memory
Student(s) Olivia Rotter			Grade 8 Town West Hartford

West Hartford St. Brigid School Zoe Mendal

5567	P8	2	Super Suds
Student(s) Dylan Errico			Grade 8 Town West Hartford

West Hartford St. Timothy Middle School Mrs. Christina Simao-Breen

5541	P8	2	Spot On! The Use of the Visible Electromagnetic Spectrum to Determine the Effectiveness of Stain Removers
Student(s) Michael Baldini			Grade 8 Town West Hartford

West Hartford St. Timothy Middle School Ms. Breen

2041	L7	1	A Study of the Relationship between Apple Price and Vitamin C
Student(s) Benjamin Lee			Grade 7 Town West Hartford

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West Hartford St. Timothy Middle School Mrs. Christina Simao-Breen

5056 P7 3 Electromagnetic Energy and Innovative Applications

Student(s) Steven Liu **Grade 7** **Town** West Hartford

West Hartford St. Timothy Middle School MS. VITALI

5022 P7 3 Cu at the Bottom

Student(s) Robert Sarkisian **Grade 7** **Town** West Hartford

West Haven Notre Dame High School Katie Saxon

6052 PS 2 Fabrication of Enhanced Organic Solar Cells Using 3m Micro Prismatic Technology

Student(s) Christopher Gaiser **Grade 11** **Town** North Haven

Westport Staples High School Dr. Nicholas D. Morgan

6053 PS 1 The Derivation of Habitable Zones around Binary Star Systems: Is Planetary Stability Possible?

Student(s) Leo Andriuk **Grade 12** **Town** Westport

Westport Staples High School Dr Nicholas Morgan

6002 PS 2 Developing an Alternative Technique of Mechanically Exfoliating Topological Insulator Bismuth Telluride

Student(s) Kyle Baer **Grade 12** **Town** Westport

Westport Staples High School Dr. Morse

6013 PS 2 Chemical Looping Combustion: A Zero CO2 Footprint Energy Conversion Process

Student(s) Rees Chang **Grade 11** **Town** Westport

Westport Staples High School Dr. Nicholas Morgan

3084 LS 3 An Evaluation of Machine Learning Methods for Genetic Variant Error Detection

Student(s) Zachary Effman **Grade 12** **Town** Westport

Westport Staples High School Dr. Michele Morse

3080 LS 2 Stabilization of CXCR4 for Crystallization by Tyrosine Sulfation of the N-Terminus

Student(s) Malin Hovstadius **Grade 12** **Town** Westport

Westport Staples High School Michelle Morse

3007 LS 3 Quantitation of Regeneration in Planaria

Student(s) Alexandra Mignucci **Grade 12** **Town** Westport

Westport Staples High School Dr. Morse

3033 LS 2 Is it possible to graft the scion of Non-Leguminous Plant (tomato) to the root stock of a Leguminous Plants (soybeans)?

Student(s) Kristen Onorato **Grade 12** **Town** Westport

Westport Staples High School Dr. Morse

3003 LS 3 Antimicrobial Activity of Lichen Extracts

Student(s) Pamela Onorato **Grade 12** **Town** Westport

Westport Staples High School Michele Morse

6035 PS 3 The European Centre for Medium Range Forecasts vs the Global Forecasting System

Student(s) Scott Pecoriello **Grade 12** **Town** Westport

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Westport Staples High School Dr. Nick Morgan
3056 LS 3 Analysis of Transport of Nitrogen Species through Right-of-way-Bioswales
Student(s) Grant Schwabacher **Grade** 12 **Town** Westport

Westport Staples High School Dr. Nick Morgan
6091 PS 2 Smoking Gun in the Milky Way Galaxy: Open Clusters and Dwarf Galaxies
Student(s) Xiaotian Zhang **Grade** 11 **Town** Westport

Wilton Middlebrook School Ms. Paige Randall
5049 P7 3 Self-Inflating Balloons
Student(s) Trisha Mhatre **Grade** 7 **Town** Wilton

Wilton Middlebrook School Mrs. Randall
5009 P7 1 The Impact of Turbine Blades on Power Output
Student(s) Vignesh Subramanian **Grade** 7 **Town** Wilton

Wilton Middlebrook School Mrs. Festa
5562 P8 2 Shrouded Wind Turbine and the Venturi Effect
Student(s) Jonathan Wu **Grade** 8 **Town** Wilton

Wilton Middlebrook School Mrs. Debbie Mallozzi
1022 LT 3 Acid Rain in Wilton, CT
Student(s) Elizabeth Yoon **Grade** 8 **Town** Wilton
Anna Yoon **Grade** 7 **Town** Wilton

Windsor Madina Academy Esslam Hassan
2541 L8 2 Inexpensive Treatments for Plants Affected from Contaminated Soil by Oil Spills
Student(s) Radeyah Ahmed **Grade** 8 **Town** Bloomfield

Windsor Madina Academy Mahmood Mohammed
4025 PT 1 Installing a Wind-gust Turbine to generate energy to power highway lighting or to see the Power Grids.
Student(s) Adelisa Cecunjanin **Grade** 8 **Town** Windsor
Alina Mohammed **Grade** 8 **Town** Windsor

Windsor Madina Academy Esslam Hassan
4008 PT 1 Investigating Novel Methods to Harvest Solar Energy for Generation of Solar Steam from Salt Water and Snow Using Graphene and Carbon Foam
Student(s) Maryam Moghul **Grade** 8 **Town** Bloomfield
Ibrahim Moghul **Grade** 7 **Town** Bloomfield

Windsor Madina Academy Mr. Hassan
1005 LT 3 The effect of organic and non-organic compost produced by vermicomposting with eisenia foetida on the growth of lycopersicon lycopersicum.
Student(s) Ayesha Nazir **Grade** 7 **Town** Manchester
Ruqayyah Paine **Grade** 7 **Town** Terryville

Windsor Madina Academy Upper School Esslam Hassan
6516 PST 2 The Use of Carbon Nanotubes for the Filtration of Heavy Metal Ions From Water
Student(s) Usra Qureshi **Grade** 12 **Town** Windsor
Aasiya Ahmed **Grade** 12 **Town** Windsor

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Windsor St. Gabriel School Ms. Rosa
5531 P8 2 Gauss Launcher Efficiency
Student(s) Elena Anderson **Grade 8** **Town** Windsor

Windsor St. Gabriel School Miss Rosa
4011 PT 2 Fore!
Student(s) Brenden Bellinger **Grade 7** **Town** Windsor
Logan Doyle **Grade 7** **Town** Windsor

Windsor St. Gabriel School Margaret Rosa
4028 PT 3 Does your shirt have your back: A study of clothing features that protect against UV light
Student(s) Alma Clark **Grade 7** **Town** Windsor
Benjamin Clark **Grade 7** **Town** Windsor

Windsor St. Gabriel School Ms. Rosa
2530 L8 3 How the Cookie Crumbles
Student(s) Molly Henderson **Grade 8** **Town** Windsor

Woodbridge Amity Regional High School Deborah Day
3006 LS 2 Awareness and Knowledge of HPV Among High School Students
Student(s) Dana Chung **Grade 12** **Town** Orange

Woodbridge Amity Regional High School Deborah Day
3022 LS 3 Determining the Most Effective Tick Repellent in Replace of DEET Based Products
Student(s) Emily Criscuolo **Grade 10** **Town** Woodbridge

Woodbridge Amity Regional High School Deborah Day
6509 PST 1 Echocardiogram-Based Wireless Left Ventricular Assist Device (LVAD) with Mobile Application Monitoring and Control
Student(s) Daniel Giebisch **Grade 12** **Town** Woodbridge
Noah Gallant **Grade 12** **Town** Bethany

Woodbridge Amity Regional High School Deborah Day
6515 PST 2 Exploring the Effects of Ammonia on the Electrical Resistivity of Graphene
Student(s) Arvene Golbazi **Grade 12** **Town** Bethany
Owais Khan **Grade 12** **Town** Orange

Woodbridge Amity Regional High School Deborah Day
3097 LS 2 The Correlation of Written and Spoken Language Development With Intelligence Quotient Throughout Reading Instruction
Student(s) James He **Grade 10** **Town** Woodbridge

Woodbridge Amity Regional High School Ms. Deborah Day
3058 LS 2 The Role of the Genetic Transfer of Mobile Genetic Elements in the Evolution of Microbial Populations
Student(s) Arpita Jajoo **Grade 12** **Town** Woodbridge

Woodbridge Amity Regional High School Deborah Day
6083 PS 2 Engineering of ZnO Tapered Pillar Nanostructures as Antireflection Coatings on Silicon Solar Cells
Student(s) Sricharan Kadimi **Grade 12** **Town** Orange

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Woodbridge Amity Regional High School Deborah Day

3010	LS	2	Deciphering the effects of aerobic glycolysis of tumor cells on host anti-tumor immunity
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Student(s) Victoria Li **Grade** 11 **Town** Woodbridge

Woodbridge Amity Regional High School Deborah Day

6084	PS	2	Determination of Illicit Drug Residues on Currency Using LC-MS/MS
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Student(s) Victoria Liu **Grade** 12 **Town** Bethany

Woodbridge Amity Regional High School Ms. Deborah Day

6037	PS	2	The Effect of 2-dimyristoyl-sn-glycero-3-phosphocholine (DMPC) Dillutions on Nanoparticle Radius Using Small Angle Neutron Scattering (SANS)
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Student(s) Ryan Oleynik **Grade** 11 **Town** Woodbridge

Woodbridge Amity Regional High School Deborah Day

3078	LS	2	Neurochemical signature of cerebral vasospasm in patients with subarachnoid hemorrhage
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Student(s) Rohan Patel **Grade** 10 **Town** Orange

Woodbridge Amity Regional High School Deborah Day

3002	LS	2	The Effects of Atypical PH on Bay Scallops (<i>Argopecten irradians</i>)
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Student(s) Dana Perry **Grade** 12 **Town** Bethany

Woodbridge Amity Regional High School Ms. Deborah Day

6012	PS	2	Robots in the Classroom: The Effect of Social Robots on Student Memorization and Participation
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Student(s) Sarah Saxe **Grade** 10 **Town** Woodbridge

Woodbridge Amity Regional High School Deborah Day

6506	PST	2	Validating the Effectiveness of Biosensor Imaging of Redundant Deviation in Shifts
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Student(s) Vincent Silverman **Grade** 11 **Town** Woodbridge
 Kevin Dardik **Grade** 11 **Town** Bethany

Woodbridge Amity Regional High School Deborah Day

3512	LST	2	The Influence of Time Consistency and Processing Speed on Multimodal Perceptual Experience
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Student(s) Eli Silvert **Grade** 11 **Town** Woodbridge
 Yiran Zhang **Grade** 11 **Town** Orange

Woodbridge Amity Regional High School Deborah Day

6082	PS	2	Creating a Semantic Search Engine with Voice Integration
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Student(s) David Wang **Grade** 11 **Town** Bethany