



# Connecticut Science & Engineering Fair

## Quinnipiac University

### March 2 - 14, 2026

*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	John Salerni	3119	LS	2	Hyper-Activated Interferon Pathways in Asthmatic B Cells Contribute to Exaggerated Immune Response	Aarika Bhawe	11	Avon
Avon	Avon High School	John Salerni	3085	LS	2	Automated Detection of Pulmonary Nodules in Computed Tomography Scans Using Deep Learning to Reduce Radiologist Workload	Nathaniel Lee	11	Avon
Avon	Avon High School	John Salerni	3172	LS	3	Integrating Copy Number Alterations and Transcriptomics with Machine Learning Improves Survival Prediction in HPV-negative Head and Neck Cancer	Vishnu Mukku	11	Avon
Avon	Avon High School	John Salerni	3076	LS	1	Static and Dynamic Functional Connectivity Within and Cross Reading and Default Mode Networks in Children Varying in Family Risk for Dyslexia and Reading	Mridhulaa Rajagopal	12	Avon
Avon	Avon High School	John Salerni	6103	PS	3	Adaptive Machine Learning-Driven Waste Management System	Karthikeyen Suresh Nagan	10	Avon
Avon	Talcott Mountain Science Center	Kaitlyn Roberts	5003	P7	1	Engineering A Durable Algae-Argonite Alkalinity System To Reduce CO2 Driven Ocean Acidification and Enhance Biological Resilience In Coastal Marine Ecosystems	Raji Doshi	7	Farmington
Avon	Talcott Mountain Science Center	Brigette Zacharczenko	2005	L7	1	Sensory Triggers of Defensive Behavior in Manduca seat	Sheldon Hsiao	7	Farmington
Avon	Talcott Mountain Science Center	Brigette Zacharczenko	2001	L7	1	Operation Brine Shrimp: Optimizing Life Conditions	Nikhil Krishnamurthy	7	Avon
Avon	Talcott Mountain Science Center	Kenneth Wright	2504	L8	3	A Cognitive Analysis of Social Media Engagement and Multitasking Behaviors in Adult Attention and Focus Endurance	Dean Raptis	8	West Hartford
Bethel	Bethel High School	Raymond Turek	6046	PS	3	The Effect of Hydroxyapatite Concentration Within Dentistry Composite Resin on the Wear, Acidic Erosion, and Discoloration on a Synthetic Tooth.	Amanda Almeida	12	Bethel

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**Bethel** Bethel High School Ray Turek  
6003 PS 2 Fleet for Localized Atmospheric Research and Environmental Surveillance (FLARES): Autonomous drones and machine learning working for a cleaner environment.

**Student(s)** Toshan Bhattacharya **Grade** 11 **Town** Bethel

**Bethel** Bethel High School Raymond Turek  
3089 LS 2 Microplastics vs. Bioplastics: Comparative Effects on Seed Germination and Early Plant Growth

**Student(s)** Kady Cibery **Grade** 12 **Town** Bethel

**Bethel** Bethel High School Ray Turek  
6029 PS 2 A Multiscale Evolutionary Simulation and Machine Learning Framework to Predict Immunotherapy Failure from Tumor–Immune Interaction Dynamics

**Student(s)** Srirama Desiraju **Grade** 12 **Town** Bethel

**Bethel** Bethel High School Raymond Turek  
3065 LS 3 How Different Suturing Techniques and Materials Impact the Effectiveness of the Suture, Measured by Wound Strength, Aesthetics and Infection, When Experimenting with Banana Peels?

**Student(s)** Emma Doyle **Grade** 12 **Town** Bethel

**Bethel** Bethel High School Raymond Turek  
3102 LS 2 Sustainable Induction of Medicinal Phytochemicals: The Effects of Low Intensity Stress on Phytochemical Yield in Basil

**Student(s)** Gabriela Greenstein **Grade** 12 **Town** Bethel

**Bethel** Bethel High School Raymond Turek  
3048 LS 2 Differences in Memory Retention Between Real Images and Artificially Generated Images.

**Student(s)** Brianna Jack **Grade** 12 **Town** BETHEL

**Bethel** Bethel High School Ray Turek  
3534 LST 1 Wavelet–Based Multiscale Anisotropy–Aware Cell–Cell Communication Inference and Niche Segmentation

**Student(s)** Shravya Mankala **Grade** 11 **Town** Bethel  
Scarlett Chen **Grade** 11 **Town** Scarsdale  
Jiayu Su **Grade** 10 **Town** Ridgefield

**Bozrah** Fields Memorial School Joshua Fish  
1003 LT 1 The Impact of Ice Melting Substances On Unicellular Organisms In Pond Water

**Student(s)** Analise Williams **Grade** 8 **Town** Bozrah  
Ella Sikorski **Grade** 8 **Town** Bozrah

**Bridgeport** Black Rock School Elizabeth Moran  
5010 P7 1 Bridge Weight Bearing Capacity

**Student(s)** Aiden Cote **Grade** 7 **Town** Bridgeport

**Bridgeport** Black Rock School Elizabeth Moran  
5528 P8 3 Solar vs Battery Powered Car Performance

**Student(s)** Robert Daley **Grade** 8 **Town** Bridgeport

**Bridgeport** Bridgeport Regional Aquaculture Center Kirk Shadle  
6067 PS 2 Utilizing Organic Byproducts Within the Internal Arrangement of Concrete to Enhance the Dimension Stability and Durability of Porous Concrete

**Student(s)** Emily Barnhart **Grade** 12 **Town** Monroe

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**Bridgeport** Bridgeport Regional Aquaculture Center Kirk Shadle  
6075 PS 1 Solid-State Synthesis Using Metal Supported Biochar to Minimize Polycyclic Aromatic Hydrocarbon Impurities  
**Student(s)** Austin Bell **Grade** 12 **Town** Bridgeport

**Bridgeport** Bridgeport Regional Aquaculture Center Kirk Shadle  
6059 PS 2 Development of a Crustacean  $\beta$ -chitin Biopolymer With Improved Functional Stability and Enhanced Decomposition  
**Student(s)** Campbell Cohen **Grade** 12 **Town** Fairfield

**Bridgeport** Bridgeport Regional Aquaculture Center Holly Turner  
3191 LS 3 Do Lobsters prefer foods with Astaxanthin? Investigating dietary choices in Homerus Americans.  
**Student(s)** Joseph DeSabia **Grade** 10 **Town** Fairfield

**Bridgeport** Bridgeport Regional Aquaculture Center Holly Turner  
3199 LS 3 Impact of increasing water temperatures on strobilation rates in Aurelia aurita.  
**Student(s)** Calyn Fletcher **Grade** 10 **Town** fairfield

**Bridgeport** Bridgeport Regional Aquaculture Center Kirk Shadle  
6032 PS 2 Development of a Dipole PVDF Film Pyroelectric Generator utilizing Process Waste Heat  
**Student(s)** Aiden Reyes **Grade** 12 **Town** Trumbull

**Bridgeport** Bridgeport Regional Aquaculture Center Holly Turner  
3510 LST 2 How Light Color Influences Agar Production in Gracilalia tikvahiae.  
**Student(s)** Cherelle Ricketts **Grade** 10 **Town** Bridgeport  
Joshua Ball **Grade** 11 **Town** Bridgeport

**Bridgeport** Bridgeport Regional Aquaculture Center Kirk Shadle  
3050 LS 2 Utilizing Vibrio natriegens for Sequestration of Heavy Metals to Promote Aquatic  
**Student(s)** Max Saunders **Grade** 12 **Town** Fairfield

**Bridgeport** Bridgeport Regional Aquaculture Center Kirk Shadle  
3090 LS 2 Enhancing Lactobacillus Acidophilus. Molecular Responses with Hydroxyapatite to Stimulate Tooth Enamel Regeneration.  
**Student(s)** Sofia Youssefi **Grade** 12 **Town** Trumbull

**Bridgeport** Central Magnet High School Caitlin Wall  
3504 LST 3 How Eyewitness Testimony and Hair Analysis Contribute to Crime Scene Investigation within Forensic Science  
**Student(s)** Senavene Wilson **Grade** 12 **Town** Bridgeport  
Mia Martinez **Grade** 12 **Town** Bridgeport

**Bridgeport** Fairchild Wheeler Aerospace Marissa Barreto  
6509 PST 2 SeatPal - Vehicular Heatstroke Prevention Device  
**Student(s)** Geaon Sohn **Grade** 12 **Town** Bridgeport  
Maya Sawaki **Grade** 12 **Town** Bridgeport

**Bridgeport** Fairchild Wheeler Aerospace Marissa Barreto  
3150 LS 3 Unlocking Neurodivergent Focus Skills  
**Student(s)** Becky Veliz Ruiz **Grade** 9 **Town** Bridgeport

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**Bridgeport** Fairchild Wheeler Biotech Tara Liskov

3515 LST 1 Testing the Efficacy of Non-Toxic Substances on the Destruction of Lanternflies and Egg Masses

**Student(s)** Maxwell Egbuzie **Grade** 12 **Town** Bridgeport

Sebastian Polanco **Grade** 12 **Town** Bridgeport

**Bridgeport** Fairchild Wheeler Biotech Marilyn Carolina

3036 LS 3 Budgerigars' Behavioral Responses to Different Genres of Music

**Student(s)** Carolyn Fox **Grade** 12 **Town** Bridgeport

**Bridgeport** Fairchild Wheeler Biotech Lucien Bouffard

3109 LS 1 Equine Cooling Patterns: Physiological Modification

**Student(s)** Carly Grimm **Grade** 9 **Town** Norwalk

**Bridgeport** Interdistrict Discovery Magnet School Susan Beres

1022 LT 3 More Than Just Water

**Student(s)** Gabriella Dickson **Grade** 7 **Town** Bridgeport

Catherine Sather **Grade** 7 **Town** Trumbull

**Bridgeport** Interdistrict Discovery Magnet School Susan Berez

2002 L7 1 Starch Wars

**Student(s)** Alicia Palacios **Grade** 7 **Town** Bridgeport

**Bridgeport** IT & Software Engineering High School Ricki Chiem

6510 PST 1 How Effectively Can AI Classify Waste?

**Student(s)** Alan Brewster **Grade** 10 **Town** Milford

Mikayla Larbi **Grade** 10 **Town** Bridgeport

Brandon Granados Pastora **Grade** 10 **Town** Bridgeport

**Bridgeport** IT & Software Engineering High School Ricki Chiem

6094 PS 2 Designing Metalloid bags to help reduce static buildup in powders

**Student(s)** Ayden Gamble **Grade** 11 **Town** Bridgeport

**Bridgeport** John Winthrop School Srilakshmi Kongani

5510 P8 3 Insulation Investigation

**Student(s)** Lavinya Baence **Grade** 8 **Town** Bridgeport

**Bridgeport** John Winthrop School Srilakshmi Kongani

5520 P8 2 The War of Energy Efficiency

**Student(s)** Anthony Gomes **Grade** 8 **Town** Bridgeport

**Bridgeport** John Winthrop School Erin Snow

5012 P7 1 Catalase's pH sweet spot

**Student(s)** Jacob Lin **Grade** 7 **Town** Bridgeport

**Bridgeport** Luis Munoz Marin School Allison Kovac

4015 PT 3 Cardboard Hydraulic Claw: A Syringe-Driven Hydraulic Grabbing Device

**Student(s)** Sofia Santos **Grade** 7 **Town** Bridgeport

Julissa Jaimes **Grade** 7 **Town** Bridgeport

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**Bridgeport** Multicultural Magnet School Corina Starn

4006	PT	1	SMART CANE
<b>Student(s)</b> Erick Aquino			
Grade 8 Town Bridgeport			
<b>Student(s)</b> Dhavid Caetano			
Grade 8 Town Bridgeport			

**Bridgeport** Read School Trisha Bartholomew

5509	P8	3	How Does Air Flow Around Different Shape of Cars?
<b>Student(s)</b> Aaron Samaroo			
Grade 8 Town bridgeport			

**Bridgeport** Warren Harding High School Shelton Neale

3117	LS	1	Plants Grow in Different Soils
<b>Student(s)</b> Joseph Colon-Machado			
Grade 11 Town Bridgeport			

**Bridgeport** Warren Harding High School Dionne Cross

3073	LS	3	Which Surface in the Lab has the Most Microbes that Could Cause Bread to Spoil.
<b>Student(s)</b> Johannes Quezada			
Grade 9 Town Bridgeport			

**Bridgeport** Warren Harding High School Dionne Cross

6524	PST	3	Robotic Arm
<b>Student(s)</b> Daiany Velasquez			
Grade 9 Town Bridgeport			
<b>Student(s)</b> Juliette Medina-Calderon			
Grade 9 Town Bridgeport			

**Cheshire** Cheshire High School Julie Barker

6030	PS	1	Towards Faster Materials Simulation: GPU-Optimized Neural Networks for Interatomic Potentials
<b>Student(s)</b> Raine Ma			
Grade 11 Town Cheshire			

**Cheshire** Cheshire High School Julie Barker

3142	LS	2	How do different compressible clothing items affect the balance of a person with Hyper-mobile Ehlers-Danlos syndrome?
<b>Student(s)</b> Bella Solimine			
Grade 10 Town Cheshire			

**Cheshire** Cheshire High School Julie Barker

3522	LST	2	Phytoplankton Adaptation to Ocean Acidification
<b>Student(s)</b> Neha Tatikonda			
Grade 11 Town Cheshire			
<b>Student(s)</b> Emily Junaedi			
Grade 11 Town Cheshire			

**Danbury** Saint Joseph School Kathleen Spina

2004	L7	1	Does your choice of footwear have a significant impact on your jumping ability?
<b>Student(s)</b> Emily Bauco			
Grade 7 Town Danbury			

**Danbury** Saint Joseph School Kathleen Spina

2513	L8	2	To Drink or Not To Drink: How clean is your water?
<b>Student(s)</b> Christopher Caputo			
Grade 8 Town danbury			

**Danbury** Saint Joseph School Kathleen Spina

2506	L8	2	Homemade Water Filtration
<b>Student(s)</b> Ryder Maravilla			
Grade 8 Town Danbury			

**Danbury** Saint Joseph School Kathleen Spina

2009	L7	1	Does Chocolate Improve Memory?
<b>Student(s)</b> John Zilliox			
Grade 7 Town Danbury			

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**Danbury** St. Gregory the Great School Christine Fahey  
 5511 P8 3 Pennies for Luck or Poison for Ponds  
**Student(s)** Dheer Bhavsar **Grade 8** **Town** Danbury

**Danbury** St. Gregory the Great School Christine Fahey  
 1011 LT 2 Grounds for Growth  
**Student(s)** Kristen Lazzara **Grade 7** **Town** Brookfield  
 Moira McKinney **Grade 7** **Town** Danbury

**Danbury** St. Gregory the Great School Christine Fahey  
 5011 P7 1 The Hot-Weather Whiff Effect  
**Student(s)** Slok Mishra **Grade 7** **Town** Danbury

**Danbury** St. Gregory the Great School Christine Fahey  
 1005 LT 1 The effect of location on water quality of the Upper Saugatuck River Watershed using macroinvertebrate metrics.  
**Student(s)** Gemma Molisani **Grade 8** **Town** Redding  
 Lucia Molisani **Grade 8** **Town** Redding

**Danbury** St. Gregory the Great School Christine Fahey  
 2511 L8 1 Novel & Portable Cards For Detection of Common Food Allergens  
**Student(s)** Rahil Shah **Grade 8** **Town** Danbury

**Danbury** Westside Middle School Academy Nancy Barlow  
 4001 PT 2 What desalinates water the most efficiently; Solar Distillation, Reverse Osmosis, and Boiling  
**Student(s)** Joseph Brocia **Grade 7** **Town** Danbury, CT  
 Colin Guidotti **Grade 7** **Town** Danbury  
 Brian Saltzman **Grade 7** **Town** Danbury

**Danbury** Westside Middle School Academy Nancy Barlow  
 1006 LT 2 The Effect of Acid Rain on Plants Around the World  
**Student(s)** Brooke Cyphers **Grade 7** **Town** Danbury  
 Margo Anderson **Grade 7** **Town** Danbury

**Danbury** Westside Middle School Academy Nancy Barlow  
 1001 LT 1 The Effect of Different Music Genres on Time it Takes Ants to Travel  
**Student(s)** Zahir Guaman **Grade 8** **Town** Danbury  
 Jhon Ramirez **Grade 8** **Town** Danbury  
 Frandell Olea **Grade 8** **Town** Danbury

**Danbury** Westside Middle School Academy Nancy Barlow  
 4009 PT 1 What is the Affect of Wing Design on the Speed a Model Plane Flies?  
**Student(s)** Shihan Lin **Grade 8** **Town** Danbury  
 Isabella Amenta **Grade 8** **Town** Danbury  
 Ally Kay **Grade 8** **Town** Danbury

**Danbury** Westside Middle School Academy Nancy Barlow  
 1020 LT 3 How Do Organisms Affect The Rate Off Food Decomposition?  
**Student(s)** Reina Melendez **Grade 8** **Town** Danbury  
 Sophia Cardenas **Grade 8** **Town** Danbury

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**Danbury** Westside Middle School Academy Nancy Barlow

4005 PT 1 Can You Detect Muons and Cosmic Rays Using Household Materials? How do Coronal Mass Ejections affect the number of muons and cosmic rays detected?

**Student(s)** Sean O'Marra Grade 8 Town Danbury  
Alius Santiago-Stra Grade 8 Town Danbury

**Danbury** Westside Middle School Academy Nancy Barlow

1027 LT 2 Keeping It Cool & Damp

**Student(s)** Madison Rowe Grade 7 Town Danbury  
Sophia Fernandes Grade 7 Town Danbury  
Makayla Roxo Grade 7 Town Danbury

**Danbury** Westside Middle School Academy Nancy Barlow

4013 PT 2 The Effect of Electrolyte Concentration on the Voltage Produced by a Baghdad Battery

**Student(s)** Logan Schneider Grade 8 Town Danbury  
Daniel Sposato Grade 8 Town Danbury

**Danbury** Westside Middle School Academy Nancy Barlow

4017 PT 1 The Effect of Phone Case Materials on EMF Radiation from an iPhone Under Various Scenarios.

**Student(s)** Gowtham Vallinayagam Grade 8 Town Danbury  
Edward Sola Grade 8 Town Danbury  
Rafael Barreto Grade 8 Town Danbury

**Danbury** Westside Middle School Academy Nancy Barlow

1013 LT 1 How can we use phytoremediation to extract different heavy metals out of soil?

**Student(s)** Rhea Yadav Grade 8 Town Danbury  
Aanya Popuri Grade 8 Town Danbury

**Danbury** Wooster School Parvin Taraz

3106 LS 2 A Multiscale Wavelet Transform Approach to Spatial Gene Expression in Breast Cancer

**Student(s)** Gabriel Mayorga Grade 9 Town Danbury

**Darien** Darien High School Christine Leventhal

6043 PS 3 Evaluating Fluorine-to-Hydrogen Substitution in PFOS to Predict Safer Variants

**Student(s)** Ananyasri Baranidharan Grade 11 Town Darien

**Darien** Darien High School David Lewis

3087 LS 2 Analysis of Approval-Based Committee Voting Methods using Real-World Ballot Data

**Student(s)** Ian Bozzuto Grade 12 Town Darien

**Darien** Darien High School Guy Pratt

3200 LS 3 The effects of psychiatric service dogs on veterans with PTSD and co-occurring mental health disorders: A Meta-Analysis

**Student(s)** Anastasia Buchesky Grade 12 Town Darien

**Darien** Darien High School David Lewis

6085 PS 2 Functionalizing DNA Nanotechnology: Optimizing the Impact of Buffer Conditions on Chemical Ligation

**Student(s)** Claire Chan Grade 12 Town Darien

[SchTown] [School] [Teacher]  
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**Darien** Darien High School Guy Pratt  
3032 LS 2 The CpG Overlap between Alzheimer's and Bipolar Disorder in the Cerebellum of Homo sapiens  
**Student(s) Avery Hanson** **Grade 11** **Town Darien**

**Darien** Darien High School Ayman Reffai  
3169 LS 2 Explanatory machine learning modeling of a seven-molecular marker panel for immune checkpoint inhibition response per RECIST v1.1 in metastatic urothelial carcinoma  
**Student(s) Matthew Li** **Grade 12** **Town Darien**

**Darien** Darien High School Guy Pratt  
3195 LS 3 Effect of Access to Healthcare on Stage at Diagnosis and Treatment Outcomes for Carcinoma Skin Cancer  
**Student(s) Kate Massey** **Grade 12** **Town Darien**

**Darien** Darien High School Guy Pratt  
3045 LS 2 The Effectiveness of Physical Therapy Camp Interventions on Motor Function in Children with Cerebral Palsy  
**Student(s) Ava Mohr** **Grade 12** **Town Darien**

**Darien** Darien High School David Lewis  
6091 PS 3 Post-Robbing Behavioral Shifts in Native and Invasive Bees  
**Student(s) Stella Nehro** **Grade 12** **Town Darien**

**Darien** Darien High School Guy Pratt  
3049 LS 2 Association Between Short-Term Sleep Deprivation and Cognitive Performance: Inhibitory Control, Problem Solving, Working Memory, and Divergent Thinking  
**Student(s) Taylor Platt** **Grade 12** **Town Darien, CT**

**Darien** Darien High School David Lewis  
3128 LS 2 Analyzing the Impact of Weight Cutting upon Head Trauma Recieved in Mixed Martial Arts Bouts  
**Student(s) Flynn Sullivan** **Grade 12** **Town Darien**

**East Hartford** Connecticut IB Academy Francis Ferrall  
6008 PS 3 A Graphene Oxide-Enhanced Biochar System for PFAS Filtration and Mineralization  
**Student(s) Kwabena Addai-Boateng** **Grade 9** **Town East Hartford**

**East Lyme** East Lyme High School Cecilia Prytko  
3182 LS 2 Baby Connect: A haptic solution for deaf parents  
**Student(s) Sashrika Das** **Grade 10** **Town East Lyme**

**East Lyme** East Lyme High School Jian Li  
3006 LS 1 Multimodal Deep Learning for BI-RADS Classification Prediction Using Breast Ultrasound and Patient Clinical Data  
**Student(s) Danlu Li** **Grade 10** **Town East Lyme**

**East Lyme** East Lyme Middle School Jung Hyun Kim  
2516 L8 3 Predicting Erosive Potential: Comparing Acid Type and Titratable Acidity in Common Beverages  
**Student(s) Ayden Kim** **Grade 8** **Town East Lyme**

**Ellington** Ellington High School James Manger  
6110 PS 3 Development of Versatile Metal Casting Molds for Low Melting Temperature Metals Via the Use of Compliant Mechanisms  
**Student(s) Thomas Gerlach** **Grade 11** **Town Ellington**

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<b>Fairfield</b>	Fairfield Warde	Ryan Gleason			
3523	LST	2	The effect of rising sea levels on the germination and survival of Lathyrus Japonicus (beach pea)		
<b>Student(s)</b>		<b>Calista Gleason</b>	<b>Grade 11</b>	<b>Town</b>	Fairfield
		<b>Emma Speicher</b>	<b>Grade 11</b>	<b>Town</b>	Fairfield

<b>Farmington</b>	Farmington High School	Alexandra Raymunt			
6525	PST	2	AI Driven Tax Calculator that calculates taxes END to END		
<b>Student(s)</b>		<b>Aman Arun</b>	<b>Grade 10</b>	<b>Town</b>	Farmington
		<b>Arush Ghosh</b>	<b>Grade 10</b>	<b>Town</b>	Farmington

<b>Farmington</b>	Farmington High School	Alexandra Raymunt			
6535	PST	1	Quantifying Caffeine Content in Commercially Labeled Caffeinated versus Decaffeinated Products		
<b>Student(s)</b>		<b>Pranit Bagchi</b>	<b>Grade 11</b>	<b>Town</b>	Farmington
		<b>Liora Dorsett</b>	<b>Grade 11</b>	<b>Town</b>	Farmington

<b>Farmington</b>	Farmington High School	Alexandra Raymunt			
3069	LS	1	Optimizing Bromelain and Papain Protease Formulations to Preserve Catalytic Activity Under Simulated Human Gastrointestinal Stress		
<b>Student(s)</b>		<b>Rajanya Bishi</b>	<b>Grade 10</b>	<b>Town</b>	Farmington

<b>Farmington</b>	Farmington High School	Alexandra Raymunt			
6037	PS	3	SAVI: A Self-Autonomous Vehicle Intelligence Framework for Future Adaptive Learning in Autonomous Vehicles		
<b>Student(s)</b>		<b>Yash Chandrasekaran</b>	<b>Grade 9</b>	<b>Town</b>	Unionville

<b>Farmington</b>	Farmington High School	Alexandra Raymunt			
6505	PST	2	Saving Artist's Money : Using a vacuum pump to recycle contaminated Turpenoid		
<b>Student(s)</b>		<b>Sophia Jiang</b>	<b>Grade 11</b>	<b>Town</b>	Farmington
		<b>Yiquan Li-Zhou</b>	<b>Grade 11</b>	<b>Town</b>	Farmington

<b>Farmington</b>	Farmington High School	Alexandra Raymunt			
3055	LS	2	XAI-SHAP for Personalized Eczema Risk: Quantifying Feature Importance of Hyper-Local Environmental Pollutants		
<b>Student(s)</b>		<b>Samanyu Kasinadhuni</b>	<b>Grade 10</b>	<b>Town</b>	Farmington

<b>Farmington</b>	Farmington High School	Alexandra Raymunt			
6520	PST	1	Utilizing Banana Peels to Depollute Water		
<b>Student(s)</b>		<b>Aniket Menon</b>	<b>Grade 10</b>	<b>Town</b>	Unionville
		<b>Andrew Nguyen</b>	<b>Grade 10</b>	<b>Town</b>	Farmington
		<b>Daniel Marimekala</b>	<b>Grade 10</b>	<b>Town</b>	Farmington

<b>Farmington</b>	Farmington High School	Alexandra Raymunt			
3501	LST	2	Predicting Peak Cognitive Performance in Teens Using Chronotype and Machine Learning		
<b>Student(s)</b>		<b>Arjun Mishra</b>	<b>Grade 10</b>	<b>Town</b>	Farmington
		<b>Steven Sadlowski</b>	<b>Grade 10</b>	<b>Town</b>	Unionville

<b>Farmington</b>	Farmington High School	Alexandra Raymunt			
6515	PST	2	Evaluating Biodegradable Polymers for Aerospace Applications: Mechanical, Thermal, and Environmental Performance		
<b>Student(s)</b>		<b>Sudeep Nelakudity</b>	<b>Grade 10</b>	<b>Town</b>	Farmington
		<b>Sankarsh Maddala</b>	<b>Grade 10</b>	<b>Town</b>	Farmington

[SchTown] [School] [Teacher]  
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**Farmington** Farmington High School Alexandra Raymunt

3157 LS 3 The Key to the Door of Studying

**Student(s)** Krish Rajkumar **Grade** 9 **Town** Unionville

**Farmington** Farmington High School Alexandra Raymunt

3188 LS 1 Characterizing Direct and Immune-Mediated Anti-Neoplastic Effects of Acute Exercise-Conditioned Serum on High-Grade Serous Carcinoma

**Student(s)** Nithin Solomon **Grade** 12 **Town** Unionville

**Farmington** Farmington High School Alexandra Raymunt

3527 LST 2 Development and Evaluation of an Offline Medical Question-Answering System Using Local Large-Language-Model Inference

**Student(s)** Monish Chowdary Thalapaneni **Grade** 11 **Town** Farmington  
Ashrava Tiwari **Grade** 11 **Town** Farmington  
Shreysht Rajesh **Grade** 11 **Town** Farmington

**Farmington** Miss Porter's School Christine Scanlon

3138 LS 3 How Cooking Affects Antioxidant Levels in Cauliflower and Their Role in Cancer Prevention

**Student(s)** Olivia Cheon **Grade** 11 **Town** Seoul

**Farmington** Miss Porter's School Christine Scanlon

6071 PS 2 Comparative Fabrication and Mechanical Evaluation of Mycelium-Based Leather Grown on Sawdust Substrates

**Student(s)** Ejin Chung **Grade** 10 **Town** Gangnam-gu

**Farmington** Miss Porter's School Christine Scanlon

6082 PS 2 Decoding Dark Matter: What Determines Its Share?

**Student(s)** Claire Lee **Grade** 11 **Town** Farmington

**Farmington** Miss Porter's School Christine Scanlon

3091 LS 2 Targeting Pulmonary Fibrosis: Macrophage-Specific Lung-Targeted Lipid Nanoparticles for Gas6 siRNA Delivery

**Student(s)** Leyi Lin **Grade** 10 **Town** Shanghai

**Glastonbury** Glastonbury High School Stephen Falcigno

6079 PS 1 OPTIMIZATION FEASIBILITY ANALYSIS OF COMPLIANT MECHANISM REPLACEMENTS OF HYDRAULICS IN PENDULUM TUNED MASS DAMPERS

**Student(s)** Diego Aguilar **Grade** 12 **Town** South Glastonbury

**Glastonbury** Glastonbury High School Stephen Falcigno

3052 LS 2 SAFETY ASSESSMENT OF RADIOISOTOPE LOADED MESOPOROUS SILICA NANOPARTICLES AND ITS TRANSLATIONAL IMPLICATION

**Student(s)** Catherine Brown **Grade** 11 **Town** glastonbury

**Glastonbury** Glastonbury High School Stephen Falcigno

3027 LS 2 Investigating How APC4 and Shtd Gene Knockdown and Temperature Affect Sperm Structure in Drosophila Melanogaster.

**Student(s)** Shriya Chennavajhula **Grade** 11 **Town** Glastonbury

**Glastonbury** Glastonbury High School Stephen Falcigno

3035 LS 2 DISCOVERING DIRECT PROBING REAGENTS FOR MODIFYING DNA STRUCTURE WITH MASS SPECTROMETRY

**Student(s)** Olivia Chi **Grade** 11 **Town** Glastonbury

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**Glastonbury** Glastonbury High School Stephen Falcigno

6042	PS	2	Quantifying Heat Accumulation in Power Electronics via Numerical Modeling
<b>Student(s)</b> Owen Collette			<b>Grade 11</b> <b>Town</b> Glastonbury

**Glastonbury** Glastonbury High School Yuri Gloumakov

6100	PS	2	Predicting human intention with tactile sensing in human-robot collaboration for moving boxes
<b>Student(s)</b> Shrestha Kar			<b>Grade 11</b> <b>Town</b> Glastonbury

**Glastonbury** Glastonbury High School Stephen Falcigno

3011	LS	2	Identifying Target for Treatment of Neuropsychiatric Illness Through Investigating the Morphology of Low-Leak C-Subunit Mice Mitochondria
<b>Student(s)</b> Ananya Lingamallu			<b>Grade 11</b> <b>Town</b> Glastonbury

**Glastonbury** Glastonbury High School Stephen Falcigno

6035	PS	1	Green Cellulose Extraction From Autumn Leaves For Biodegradable Packaging Films
<b>Student(s)</b> Ioana Popescu			<b>Grade 11</b> <b>Town</b> Glastonbury

**Glastonbury** Glastonbury High School Stephen Falcigno

6051	PS	2	Designing and Manufacturing a Wingshape Optimized for High-Endurance Mars Flight
<b>Student(s)</b> Taraksh Singh			<b>Grade 11</b> <b>Town</b> Glastonbury

**Glastonbury** Glastonbury High School Stephen Falcigno

6066	PS	3	Predicting Motion Outcomes in Civil Litigation Cases
<b>Student(s)</b> Afraz Sohail			<b>Grade 12</b> <b>Town</b> Glastonbury

**Glastonbury** Glastonbury High School Stephen Falcigno

3161	LS	3	Experimental Validation of Computational Tools for Nanobody Affinity Maturation
<b>Student(s)</b> Anya Srivastava			<b>Grade 11</b> <b>Town</b> Glastonbury

**Glastonbury** Glastonbury High School Stephen Falcigno

3062	LS	2	A Usability Evaluation of the LookUpTrials Mobile Application to Improve Oncology Clinical Trial Participation
<b>Student(s)</b> Aanshi Thumar			<b>Grade 11</b> <b>Town</b> Glastonbury

**Greenwich** Brunswick School Dana Montanez

3502	LST	2	Comparing Photo Complexes of Spinach and Cyanobacteria in Biophotovoltaic Devices
<b>Student(s)</b> Stanford Apple			<b>Grade 10</b> <b>Town</b> Greenwich
			<b>Colt Inman</b> <b>Grade 10</b> <b>Town</b> New Canaan

**Greenwich** Brunswick School Dana Montañez

3525	LST	2	Linking Bacterial Contamination in Public Water Sources to Daphnia Behavior and Health
<b>Student(s)</b> Owen Bartoszek			<b>Grade 11</b> <b>Town</b> Greenwich
			<b>Aidan Williams</b> <b>Grade 11</b> <b>Town</b> Greenwich

**Greenwich** Brunswick School Dana Montanez

3536	LST	2	Biochar as a Bioremediation Method to Control Microplastic Effects on Agricultural Crops
<b>Student(s)</b> Giancarlo Cuesta			<b>Grade 10</b> <b>Town</b> Stamford
			<b>Quinn Cunningham</b> <b>Grade 10</b> <b>Town</b> Greenwich

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[SchTown] [School] [Teacher]  
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**Greenwich** Brunswick School Dana Montanez  
6504 PST 1 Teaching Artificial Intelligence to Detect Focal Seizures Accurately Using a Camera System.

**Student(s)** Jude Evans **Grade** 10 **Town** Greenwich  
Collin McCreath **Grade** 10 **Town** Ryebrook

**Greenwich** Brunswick School Dana Montanez  
6047 PS 3 Applying Causal Inference Methodologies to a Large-scale Publicly Available Dataset to Assess Causality Between Nutrient Deficiencies and ADHD Diagnoses

**Student(s)** Sohan Javeri **Grade** 10 **Town** Greenwich

**Greenwich** Brunswick School Dana Montanez  
3514 LST 2 A comparative analysis of Equine Nutritive Supplements utilizing invitro gas production as a proxy for in vitro breakdown and absorption

**Student(s)** Reed Keller **Grade** 10 **Town** Greenwich  
Bear Sickles **Grade** 10 **Town** Greenwich

**Greenwich** Brunswick School Dana Montanez  
3044 LS 3 Using Stochastic Modeling Techniques to Determine the Impact of Removal of the Measles Vaccine Mandate in Florida

**Student(s)** Arjun Leih **Grade** 10 **Town** Greenwich

**Greenwich** Brunswick School Dana Montanez  
3074 LS 3 Determining the Effects of Oleic Acid on Aspergillus oryzae  $\alpha$ -Amylase Enzyme Activity

**Student(s)** Shepherd McGovern **Grade** 11 **Town** Greenwich

**Greenwich** Brunswick School Dana Montanez  
3530 LST 1 An investigation of Methylene Blue's Neuroprotective ability to Inhibit Excess Glutamate in aquatic Invertebrates.

**Student(s)** Jayden Montanez **Grade** 11 **Town** Greenwich  
Callum Holl **Grade** 11 **Town** Old Greenwich

**Greenwich** Brunswick School Dana Montanez  
3507 LST 1 Antioxidant Delivery using Food Grade Nanoclay as a strategy to emulsify lipids and potentially reduce LDL oxidation.

**Student(s)** Nathaniel O'Connor **Grade** 11 **Town** Chappaqua  
Tyrus Ostrowski **Grade** 11 **Town** Port Chester

**Greenwich** Brunswick School Dana Montanez  
3519 LST 1 Comparative Analysis of Biopolymer Hydrogels: an Investigation of Degradability, Nitrogen Leaching, and Plant Growth.

**Student(s)** Chris Pedlow **Grade** 11 **Town** Cos Cob  
Gabriel Levy **Grade** 11 **Town** Greenwich

**Greenwich** Brunswick School Dana Montanez  
3177 LS 1 Preventing Zoonotic Parasitic Growth in Freshwater Aquaculture Using Aerogel Praziquantel Feed Additives

**Student(s)** Sawyer Sacks **Grade** 11 **Town** Greenwich

**Greenwich** Brunswick School Dana Montanez  
6514 PST 2 Enhancing Photostability of Aquazol with the Addition of HALS and UVAs

**Student(s)** Harry Saunders **Grade** 11 **Town** greenwich  
Peter Saunders **Grade** 11 **Town** Greenwich

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**Greenwich** Brunswick School Peter Adams  
3143 LS 2 Fostering Bioluminescence In Physcomitrium Patens Embryos Using Plasmid Transformation  
Student(s) **Thomas Walsh** Grade 10 Town Harrison

**Greenwich** Brunswick School Dana Montanez  
6039 PS 1 Comparative Study of Magnetohydrodynamic Propulsion Designs for Marine Applications  
Student(s) **Jack Wendell** Grade 11 Town Greenwich

**Greenwich** Central Middle School Marina Pinkhasik  
5507 P8 2 Evaluating Dissolved CO<sub>2</sub> and Alkalinity in Coastal Waters  
Student(s) **Kearnon Henske** Grade 8 Town Cos Cob

**Greenwich** Central Middle School Andrew Bramante  
2503 L8 1 In situ, Natural Degradation of Cyanotoxins in Water by *L. acidiphilus*, with Concurrent Stimulation of the Aquatic Ecosystem  
Student(s) **Clarissa Maldonado** Grade 8 Town Greenwich

**Greenwich** Central Middle School Andrew Bramante  
2508 L8 1 Investigating the Inclusion of Hair Extracted Keratin Nanostructures for Increased Strength and Flexibility for the Construction of an Artificial Anterior Cruciate Ligament  
Student(s) **Juliette Prezioso** Grade 8 Town Greenwich

**Greenwich** Central Middle School Andrew Bramante  
5502 P8 2 Repurposing Carbon Combustion Residuals from a Landfill Waste to a Beneficial Soil Additive  
Student(s) **Morgan Schwartzstein** Grade 8 Town Greenwich

**Greenwich** Eastern Middle School Andrew Bramante  
2517 L8 1 A Web-Based Detection Tool for Medical Conditions Effecting the Eye: Integrating Multiple Trained CNNs for Accessible Smartphone Screening  
Student(s) **Ares Bandedo-Cambra** Grade 8 Town Old Greenwich

**Greenwich** Eastern Middle School Andrew Bramante  
5515 P8 3 Computer Simulation for School Traffic Optimization  
Student(s) **Ivyn Chen** Grade 8 Town Greenwich

**Greenwich** Eastern Middle School Andrew Bramante  
5501 P8 1 Fabrication of a UV-A versus UV-B Dual-Wavelength, Wearable Patch  
Student(s) **Julia Gitelman** Grade 8 Town Old Greenwich

**Greenwich** Eastern Middle School Andrew Bramante  
5506 P8 1 OASIS: A Solar-Powered Off-Grid System for Harvesting Water from Subsurface Sand Moisture to Support Desert Vegetation Recovery  
Student(s) **Jiahao Luo** Grade 8 Town Greenwich

**Greenwich** Eastern Middle School Andrew Bramante  
2502 L8 1 Can Dietary Anti-oxidant Pre-treatment Control the Hyperphosphorylation of Tau Protein,  
Student(s) **Neil Mikkilineni** Grade 8 Town Greenwich

**Greenwich** Eastern Middle School Andrew Bramante  
2509 L8 1 Machine Learning-Based Analysis of Smartphone Behavioral Data for Detection of Depression in High School and College Students  
Student(s) **Srihari Mysore** Grade 8 Town Cos Cob

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**Greenwich** Greenwich Academy Deana Semenza  
2512 L8 2 Glutathione as a neuroprotectant against glucose induced dopaminergic degeneration in Caenorhabditis elegans  
**Student(s)** Addison Garner **Grade** 8 **Town** Greenwich

**Greenwich** Greenwich Country Day School Nathan Haag  
3093 LS 2 The Effect of Different Concentrations of Ampicillin vs. Tea Tree Oil on Bacterial Growth  
**Student(s)** Bianca Amen **Grade** 12 **Town** Greenwich

**Greenwich** Greenwich Country Day School Nathan Haag  
3099 LS 2 Viability of Freshwater Mussels as a Water-Management Tool in America  
**Student(s)** Cate Auerswald **Grade** 12 **Town** Cos Cob

**Greenwich** Greenwich Country Day School Nathan Haag  
6049 PS 3 Evaluating YOLO-Based Neural Networks for Automated Drone Interception on Resource-Constrained Hardware  
**Student(s)** Zachry Bostock **Grade** 12 **Town** Greenwich

**Greenwich** Greenwich Country Day School Nathan Haag  
3005 LS 3 Fruits: Can you remember better with or without them?  
**Student(s)** Iyla Brown **Grade** 12 **Town** Norwalk

**Greenwich** Greenwich Country Day School Nathan Haag  
3009 LS 2 Seeing Red: Examining Fixed Action Patterns and Vision in the Three Spined Stickleback Fish, Gasterosteus aculeatus  
**Student(s)** Caroline Cabrera **Grade** 12 **Town** Old Greenwich

**Greenwich** Greenwich Country Day School Nathan Haag  
6063 PS 2 Convolutional Neural Network Classification of DaTSCAN Images for Parkinson's Disease with Interpretability Analysis  
**Student(s)** Mary Chickering **Grade** 11 **Town** Greenwich

**Greenwich** Greenwich Country Day School Nathan Haag  
3056 LS 2 The effect of various sugar compounds on memory  
**Student(s)** Margaux Citrin **Grade** 12 **Town** Greenwich

**Greenwich** Greenwich Country Day School Nathan Haag  
3118 LS 2 The effects of spray and lotion sunscreen on corals  
**Student(s)** Charlotte Darwent **Grade** 12 **Town** Greenwich

**Greenwich** Greenwich Country Day School Nathan Haag  
6020 PS 3 Effects of different drive-signal strategies on refresh rate and resolution of a Micro controller-driven CRT display.  
**Student(s)** Oliver Davis **Grade** 11 **Town** Riverside

**Greenwich** Greenwich Country Day School Nathan Haag  
3208 LS 2 From Learning to Read to Reading to Learn: How Picture Books Affect Retention and Comprehension Rates In Greenwich Country Day Fourth Graders  
**Student(s)** Tessie Filicetti **Grade** 12 **Town** Cos Cob

**Greenwich** Greenwich Country Day School Nathan Haag  
3001 LS 3 Oyster Filtration Efficiency on Different Common Sediments  
**Student(s)** Liam Kennon **Grade** 12 **Town** Old Greenwich

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<b>Greenwich</b>	Greenwich Country Day School	Nathan Haag	3121	LS	1	Engineering a Thermostable Enzyme for the Degradation of PET Through Manipulation of Disulfide Bonds	<b>Student(s)</b> Jackson Lieberman	<b>Grade</b> 11	<b>Town</b> Greenwich
<b>Greenwich</b>	Greenwich Country Day School	Nathan Haag	3086	LS	2	Natural versus synthetic sugar and the short-term effects on cognitive functioning in high school students	<b>Student(s)</b> Mary McDonnell	<b>Grade</b> 12	<b>Town</b> Greenwich
<b>Greenwich</b>	Greenwich Country Day School	Nathan Haag	3105	LS	3	The Impact of Artificial Intelligence on Student Problem-Solving in Education	<b>Student(s)</b> Taylor Messina	<b>Grade</b> 12	<b>Town</b> Old Greenwich
<b>Greenwich</b>	Greenwich Country Day School	Nathan Haag	3023	LS	3	Distraction in Motion: Measuring Student Attention and Movement Response to Hallway Events	<b>Student(s)</b> Evan Myers	<b>Grade</b> 12	<b>Town</b> Stamford
<b>Greenwich</b>	Greenwich Country Day School	Nathan Haag	3148	LS	3	The Cognitive and Neurological Effects of Test-Induced Stress on the Adolescent Brain	<b>Student(s)</b> Kaia Novack	<b>Grade</b> 12	<b>Town</b> Stamford
<b>Greenwich</b>	Greenwich Country Day School	Nathan Haag	3134	LS	3	How Probiotics and Antibiotics Impact Fish Health: Effects of B-Glucan, Bacillus licheniformis, and Ampicillin on Blue Nile Tilapia Health	<b>Student(s)</b> Nicholas Shefter	<b>Grade</b> 11	<b>Town</b> Greenwich
<b>Greenwich</b>	Greenwich High School	Andrew Bramante	3094	LS	1	Determining how prevalence of single nucleotide polymorphisms alters HLA molecule's expression, and dictates Juvenile Idiopathic Arthritis' best treatments in specific populations	<b>Student(s)</b> Tessa Addeo	<b>Grade</b> 10	<b>Town</b> Greenwich
<b>Greenwich</b>	Greenwich High School	Andrew Bramante	3054	LS	2	Design of Zein-Trimethyl Chitosan Nanoparticles for the Non-Invasive Capture and Removal of	<b>Student(s)</b> Isha Bharti	<b>Grade</b> 10	<b>Town</b> Riverside
<b>Greenwich</b>	Greenwich High School	Andrew Bramante	3014	LS	2	CD44-Targeted Nanoparticle Co-Delivery of Simvastatin and Colchicine for Localized Treatment of Atherosclerotic Plaque Inflammation in Cardiovascular Disease	<b>Student(s)</b> Arnav Bhatia	<b>Grade</b> 11	<b>Town</b> Old Greenwich
<b>Greenwich</b>	Greenwich High School	Andrew Bramante	3101	LS	2	Design of a Fluorescence-Based, Point-of-Care Diagnostic for Chronic Kidney Disease via Smartphone Detection of Salivary Creatinine-Porphyrin Conjugation	<b>Student(s)</b> Rajsi Choudhary	<b>Grade</b> 9	<b>Town</b> Riverside
<b>Greenwich</b>	Greenwich High School	Andrew Bramante	3066	LS	2	Microneedle-Contact Lens Co-Delivery of Azobenzene-Liposome Photoswitches and PEDF Neurotrophic Growth Factors to Repair the Effects of Macular Degeneration	<b>Student(s)</b> Hannah Dcruz	<b>Grade</b> 11	<b>Town</b> Greenwich

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**Greenwich** Greenwich High School Andrew Bramante

3104 LS 2 Colorimetric Sensory Detection of High Levels of Uric Acid and Endothelin-1 for Early Pulmonary Hypertension

**Student(s)** Amelia Foell **Grade** 11 **Town** Greenwich

**Greenwich** Greenwich High School Andrew Bramante

3028 LS 1 A Novel Dual-Targeting Therapeutic Patch for Non-Addictive, Non-Opioid Pain Suppression via Selective Transient Receptor Potential (TRP) Modulation

**Student(s)** Nishant Jain **Grade** 11 **Town** Riverside

**Greenwich** Greenwich High School Andrew Bramante

6060 PS 3 Bridging the Sim-to-Real Gap in Autonomous Drone Control via Curriculum-Scheduled Domain Randomization

**Student(s)** Henry Jin **Grade** 12 **Town** Greenwich

**Greenwich** Greenwich High School Andrew Bramante

3020 LS 1 Exploration of Neuroprotective potential of Moringa oleifera against Alzheimer's Disease and Drosophila Alzheimer's model validation

**Student(s)** Raymond Li **Grade** 11 **Town** riverside

**Greenwich** Greenwich High School Andrew Bramante

6019 PS 3 Harvesting Energy using Rain: Self-Healing Triboelectric Nanogenerators using CNT Composite Paper to Produce Meaningful Energy Production

**Student(s)** Richard Lu **Grade** 9 **Town** Greenwich

**Greenwich** Greenwich High School Andrew Bramante

3185 LS 1 Development of a Novel Nanoparticle Drug Delivery System using OLAH Targeting to Deliver Surfactant Protein and Prevent Neonatal Respiratory Distress Syndrome

**Student(s)** Tyler Malkin **Grade** 10 **Town** Greenwich

**Greenwich** Greenwich High School Andrew Bramante

3083 LS 2 Development of an Adaptive Glucose-Responsive Oral Insulin Capsule: A Glucose-Oxidase Nanoparticle System for Intestinal Delivery in Type 1 Diabetes

**Student(s)** Ellie Mao **Grade** 9 **Town** Riverside

**Greenwich** Greenwich High School Andrew Bramante

3125 LS 1 Creation of PACA nanoparticles with a chitosan bilayer for effective oral delivery of a sildenafil PDE-5

**Student(s)** Neil Pendkar **Grade** 11 **Town** Old Greenwich

**Greenwich** Greenwich High School Andrew Bramante

3059 LS 1 Discovery and Validation of Biopolymer Coatings for Nanoparticle-Loaded Silk Fibroin Sutures to Accelerate Tissue Regeneration with a Novel Multimodal Machine Learning Model

**Student(s)** Raghav Ramji **Grade** 10 **Town** Riverside

**Greenwich** Greenwich High School Andrew Bramante

3034 LS 2 Effects of Betanin as a Potential Therapeutic Agent in Parkinson's Disease using a Drosophila melanogaster Model.

**Student(s)** Tania Samant **Grade** 10 **Town** Greenwich

**Greenwich** Greenwich High School Andrew Bramante

3133 LS 1 Design of a Novel, Dual-Functioning, T-Cell-Engaging and Cytarabine-Based Nanotherapeutic for Acute Myeloid Leukemia Treatment

**Student(s)** Lula Wang **Grade** 11 **Town** Old Greenwich

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**Greenwich** Greenwich High School Andrew Bramante

6097	PS	1	Process Optimization of Green Chemistry Pathway for Fabric-to-Fabric Recycling of Cotton
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**Student(s)** Marley Wies **Grade** 12 **Town** Old Greenwich

**Greenwich** Greenwich High School Andrew Bramante

3007	LS	1	Novel On Chip Screening Device for Ovarian Cancer with Algorithm from SVM-RFE on Serum miRNA Relative Expression Orderings
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**Student(s)** Sophie Yu **Grade** 11 **Town** Riverside

**Greenwich** Sacred Heart Greenwich Joyce Reed

3203	LS	1	Hearing Loss's Correlation to Anxiety
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**Student(s)** Haley Blackwell **Grade** 12 **Town** Rye

**Greenwich** Sacred Heart Greenwich Joyce Reed

3513	LST	2	Using Hydromoths to Analyze Energy and Average Power Denisty in Long Island Sound and Bahamas
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**Student(s)** Sutton Burchetta **Grade** 12 **Town** Port Chester  
 Finley Newman **Grade** 12 **Town** Bedford Corners

**Greenwich** Sacred Heart Greenwich Mary Musolino

4007	PT	1	Evaluating Biodegradable Plastics Made from Avocados, Bananas, and Mangos
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**Student(s)** Lauren Davidoff **Grade** 8 **Town** Pelham  
 Grace Nicholas **Grade** 8 **Town** Armonk

**Greenwich** Sacred Heart Greenwich Mary Musolino

4010	PT	2	Testing Different Types of Algae To Reduce The Amount to Carbon Dioxide Emissions in the Atmosphere
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**Student(s)** Riley Driscoll **Grade** 8 **Town** Rye  
 Catherine Villar **Grade** 8 **Town** Darien  
 Gabby Leveille **Grade** 8 **Town** Norwalk

**Greenwich** Sacred Heart Greenwich Mary Musolino

4014	PT	3	Purifying Water using Different Types of Graphene to Adsorb Harmful Pollutants
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**Student(s)** Adriana Hassani-Sadi **Grade** 8 **Town** Old Greenwich  
 Malaika Bazie **Grade** 8 **Town** White Plains

**Greenwich** Sacred Heart Greenwich Mary Musolino

4004	PT	2	Evaluating the Effectiveness of Supplementing Simulated Lunar Soil to Promote Crop Growth for Future Lunar Missions
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**Student(s)** Lily Hohensee **Grade** 8 **Town** Stamford  
 Lily Chase **Grade** 8 **Town** Rye  
 Paige Yantz **Grade** 8 **Town** Greenwich

**Greenwich** Sacred Heart Greenwich Joyce Reed

3015	LS	1	Understanding The Effects of Music Usage On Caregivers of Alzheimer's Patients
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**Student(s)** Grace Mucciaa **Grade** 12 **Town** Rye

**Greenwich** Sacred Heart Greenwich Mary Musolino

4018	PT	2	Bio Fuel from Bamboo: Comparing the Yield of Ethanol Produced from Fermentation to the Bio Oil Produced from Solvent Extraction
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**Student(s)** Riley Williams **Grade** 8 **Town** Harrison  
 Paula Tonkovich **Grade** 8 **Town** New Canaan

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**Greenwich** Western Middle School Andrew Bramante  
5505 P8 1 Creating a Crab Trap That Uses Computer Vision To Detect and Capture the Invasive European Green Crab

**Student(s)** Laila McQueen **Grade 8** **Town** Greenwich

**Greenwich** Western Middle School Andrew Bramante  
5526 P8 1 Comparative analysis of CO2 Reduction by Common Houseplants Using an Arduino-Based Environmental Monitoring System

**Student(s)** Victoria Shkabarnya **Grade 8** **Town** Greenwich, CT

**Hamden** Hamden Hall Country Day School Sarrah Gavin  
3176 LS 3 Genetic diversity of aging and stress on breast cancer survival

**Student(s)** Anna Aslan **Grade 10** **Town** Hamden

**Hamden** Hamden Hall Country Day School Paulomi Aldo  
2501 L8 2 The Effect of Soda Acidity, sugar level, and caffeine level on Daphnia Magna's Physiological Responses

**Student(s)** Jason Cabral **Grade 8** **Town** Wallingford

**Hamden** Hamden Hall Country Day School Gina DAngelo  
3164 LS 3 Finding a way to qualitatively measure anxiety in adolescents with undetectable questionnaire

**Student(s)** Penelope Dwyer **Grade 11** **Town** Madison

**Hamden** Hamden Hall Country Day School Paulomi Aldo  
5522 P8 3 Which shapes are the best for making the most aerodynamic car

**Student(s)** David Esposito **Grade 8** **Town** North Haven

**Hamden** Hamden Hall Country Day School Paulomi Aldo  
2510 L8 2 The Effect of Fungi on Plastic Decomposition

**Student(s)** Emma Gammans **Grade 8** **Town** Woodbridge

**Hamden** Hamden Hall Country Day School Paulomi Aldo  
5517 P8 3 Parallel parking test

**Student(s)** Gabriel Goldner **Grade 8** **Town** Bethany

**Hamden** Hamden Hall Country Day School Paulomi Aldo  
5014 P7 1 What is the Lowest Ratio of Earth to Mars Soil in which Plants can be Grown?

**Student(s)** George Hirsch **Grade 7** **Town** North Haven

**Hamden** Hamden Hall Country Day School Alice Loth  
6095 PS 3 Innovated Emergency Vital Sign Detector

**Student(s)** Rhea Hu **Grade 10** **Town** North Haven

**Hamden** Hamden Hall Country Day School Palumi Aldo  
2520 L8 3 How different color of light affect potato growth

**Student(s)** Zhiyang Lu **Grade 8** **Town** Hamden

**Hamden** Hamden Hall Country Day School Daniel Kemp  
3207 LS 3 How environmental factors (temperature and UV light intensity) affect planarian's regeneration?

**Student(s)** Tongran Luan **Grade 10** **Town** Hamden

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**Hamden** Hamden Hall Country Day School Alice Loth  
3170 LS 2 Development of an AI-algorithm-enabled mobile application and Near-Infrared (NIR) LED device to assist in venipuncture  
**Student(s)** Neev Makin **Grade** 12 **Town** Hamden

**Hamden** Hamden Hall Country Day School Patrick Fitzgerald  
3201 LS 2 Investigation of effect of PFOS on human hippocampal development and function by using human brain organoids  
**Student(s)** Daniel Park **Grade** 11 **Town** milford

**Hamden** Hamden Hall Country Day School Paulomi Aldo  
2505 L8 2 The Amount of Carbon Dioxide That Nannochloropsis, Chlorella, and Chlamydomonas can Photosynthesize  
**Student(s)** Gabi Pereira **Grade** 8 **Town** Hamden

**Hamden** Hamden Hall Country Day School Jacob Marchesi  
6522 PST 1 Active Noise Cancellation Efficiencies of an Adaptive ANC System Using Destructive Interference to Reduce Harmful Low-frequency Urban Noise.  
**Student(s)** Frida Ramirez Moreno **Grade** 11 **Town** Meriden  
Barbara Ramirez Moreno **Grade** 12 **Town** Meriden

**Hamden** Hamden Hall Country Day School Patrick Fitzgerald  
3136 LS 2 Mutating the Copper Binding Residues of CSRP2 to Asses Protein Function in Murine Primary Myoblasts  
**Student(s)** Alessandra Sticca **Grade** 11 **Town** Milford

**Hamden** Hamden Hall Country Day School Patrick Fitzgerald  
3144 LS 3 Therapeutic Potential of Neurokinin Receptor 1 Antagonist in Breast Cancer  
**Student(s)** Sophia Vash **Grade** 12 **Town** Fairfield

**Hamden** Hamden Hall Country Day School Paulomi Aldo  
2515 L8 2 Do Outside Environmental Factors Affect Your Ability To Memorize?  
**Student(s)** Matthew Wallis **Grade** 8 **Town** Hamden

**Hamden** Hamden Hall Country Day School Daniel Kemp  
6517 PST 3 How Does pH Affect the Corrosion Rate of Steel?  
**Student(s)** Yuxiao Yang **Grade** 9 **Town** Guilford  
Jiale Luo **Grade** 9 **Town** Derby  
Xinyi Xiao **Grade** 9 **Town** Derby

**Hamden** Hamden Hall Country Day School Daniel Cuneo  
6527 PST 3 Evaluating US Coinage -- From Lincoln Cent  
**Student(s)** George Zhang **Grade** 10 **Town** Hamden  
Alina Zhu **Grade** 9 **Town** Hamden

**Hamden** Hamden Hall Country Day School Daniel Kemp  
3033 LS 3 The Hidden Danger of Overusing Antibiotics  
**Student(s)** Bella Zhou **Grade** 9 **Town** Hamden

**Hamden** Sacred Heart Academy Elizabeth Christophy  
6511 PST 2 The Effects of Smoke from Wildfires on the Temperature of Surrounding Areas  
**Student(s)** Avery Cretella **Grade** 10 **Town** North Haven  
Gianna Saldibar **Grade** 10 **Town** West Haven

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**Hamden** Sacred Heart Academy Elizabeth Christophy  
6502 PST 1 Comparing  $\alpha$ -Pinene Emissions from Local Wood's Smoke Through Polarimetric Data  
**Student(s)** Persephone Delaney Delaney **Grade** 10 **Town** Wallingford  
Cathleen Coughlin **Grade** 10 **Town** North haven

**Hamden** Sacred Heart Academy Paula Napychank  
3122 LS 3 Never Miss a Dose  
**Student(s)** Beatrice Dikow **Grade** 9 **Town** HAMDEN

**Hamden** Sacred Heart Academy Elizabeth Christophy  
6065 PS 3 How Polarizing Filters Can Affect Glare and Road Safety  
**Student(s)** Braelyn Heusser **Grade** 10 **Town** Meriden

**Hamden** Sacred Heart Academy Paula Napychank  
6119 PS 2 Medication Management  
**Student(s)** Adriana LaMonico **Grade** 9 **Town** Woodbridge

**Hamden** Sacred Heart Academy Elizabeth Christophy  
3512 LST 3 Modeling Aerosol-Albedo Interactions: The Effect of Incense Smoke Above a Simulated Ocean  
**Student(s)** Audrey Medvecky **Grade** 10 **Town** Guilford  
Emilia Prato **Grade** 10 **Town** North Branford

**Hamden** Sacred Heart Academy Paula Napychank  
3037 LS 2 Antioxidants From Food Sources Inhibit Bacterial Growth  
**Student(s)** Caroline Rogers **Grade** 9 **Town** Madison

**Hartford** Hartford Magnet Trinity College Marcus Stafford  
6114 PS 2 Analyzing PKB activity and ROS within Dictyostelium discoideum cells via capillary  
**Student(s)** Naiya Newhouse **Grade** 12 **Town** Ellington

**Kent** Kent School Jesse Klingebiel  
3088 LS 3 Ginger-Derived Exosomes Inhibit Microbial Contamination in Aqueous Environment  
**Student(s)** Leni Fan **Grade** 10 **Town** Lexington

**Kent** Kent School Jesse Klingebiel  
6120 PS 2 CardVis: Intelligent Automated Surface Defect Inspection System for Playing Cards  
**Student(s)** Chloe Feng **Grade** 10 **Town** Las Vegas

**Kent** Kent School Michael Green  
3058 LS 3 MelodyMemo: A Novel Emotion-Aware Memory-Music Modeling and Recommendation System for Older Adults  
**Student(s)** Newton Niu **Grade** 11 **Town** Stamford

**Kent** Kent School Jesse Klingebiel  
6092 PS 2 Modular Development of a Pneumatic Lumbar Exoskeleton for Assisting Stoop Lifting  
**Student(s)** Yu Tung Shan **Grade** 10 **Town** Kent

**Kent** Kent School Claudia Cea  
3067 LS 3 Flexible Organic Transistor-Based Devices for Neural Recording in the Gut  
**Student(s)** Emma Sun **Grade** 11 **Town** Hamilton

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**Kent** Kent School Jesse Klingebiel

6080 PS 3 Dog Nose Print Recognition Method and System

**Student(s)** Yiduan Wang **Grade** 10 **Town** Kent

**Kent** Kent School Jesse Klingebiel

6098 PS 2 Assessment of Walking Ability in Parkinson's Patients Using Three-Dimensional Plantar Pressure Sensors

**Student(s)** Tianrui Zhang **Grade** 11 **Town** Kent

**Manchester** Manchester High School Stefanie Sebastiao-Kirby

3159 LS 2 The Impact of Presentation Styles on Engagement in High School Math Classes

**Student(s)** Shaelan Gara Grady **Grade** 12 **Town** Manchester

**Manchester** Manchester High School Wendy Turek

3524 LST 2 Investigating Genetic Correlations Between Down Syndrome and Congenital Heart Defects Through Biostatistical Analysis to Develop a Predictive Model

**Student(s)** Grace Golas **Grade** 12 **Town** Manchester

Aine Corbett-Cousins **Grade** 12 **Town** Manchester

**Manchester** Manchester High School Stefaine Sebastiao-kirby

3112 LS 1 Investigation of Reptile UV bulb on vitamin D2 synthesis in pulverized oyster mushrooms : An analysis over 0, 1, 2, and 3 hour durations using Thin Layer Chromatography (TLC).

**Student(s)** Warda Iqbal **Grade** 12 **Town** Manchester

**Manchester** Manchester High School Wendy Turek-Hernandez

3168 LS 2 The effects of micropastics on plant growth.

**Student(s)** Malala Naeem **Grade** 12 **Town** manchester

**Manchester** Saint James School Brigid Utz

5004 P7 3 The Effect of the Temperature of the Environment on the Ice and Temperature of Water After 24 Hours

**Student(s)** Blake Chambers **Grade** 7 **Town** Manchester

**Manchester** Saint James School Brigid Utz

5015 P7 2 The Effect of the Different Type of Baseball Bats on the Exit Velocity of the Baseball

**Student(s)** Connor Martin **Grade** 7 **Town** Manchester

**Manchester** Saint James School Brigid Utz

1025 LT 3 The Effect of Sound and Music Genres on Heart Rate (Measured in Beats per Minute)

**Student(s)** Therese Pfeiffer **Grade** 7 **Town** Tolland

Morgan Gaidos **Grade** 7 **Town** Glastonbury

**Mansfield** Edwin O. Smith High School Cheryl Granger

3528 LST 1 Optimizing Jurkat Cell Cryopreservation Formulation for Safer T-Cell Therapy

**Student(s)** Alice Han **Grade** 11 **Town** Storrs

Bibhuti Marasini **Grade** 11 **Town** Storrs

**Mansfield** Edwin O. Smith High School Cheryl Granger

3211 LS 2 Researching the Effects Of Different Concentrations of Formaldehyde on the Presence of Different Species of Bacteria in Soil

**Student(s)** Avery Hancock-Braun **Grade** 10 **Town** Storrs

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**Meriden** H. C. Wilcox Technical High School Jeffrey Daddona

6518 PST 3 Using storm water run off to generate clean energy and water.

**Student(s)** Chase Andrews **Grade** 11 **Town** wallingford

Riley Keyes **Grade** 11 **Town** wallingford

Kyle Miranda **Grade** 11 **Town** Meriden

**Montville** Saint Thomas Moore School Yajamana Ramu

3129 LS 3 Towards Climate-Smart Agriculture: Decoding PP2C Gene Functions for Abiotic Stress Resilience in Maize

**Student(s)** Ami Rastogi **Grade** 11 **Town** Monroe Township

**New Haven** Engineering and Science University Magnet Alyssa Anderson

3092 LS 3 Investigating the Impact of Akkermansia Muciniphila on Neuropathology in Parkinson's Disease Mice

**Student(s)** Titiladeoluwa Adeniran **Grade** 11 **Town** Seymour

**New Haven** Engineering and Science University Magnet Alyssa Anderson

3038 LS 1 Implementation and Validation of a Novel Machine-Learning Framework for Classifying Fossil Invertebrates Using Quantitative Morphological Trait Matrices

**Student(s)** Sahithi Aliminate **Grade** 11 **Town** Milford

**New Haven** Engineering and Science University Magnet Alyssa Anderson

5008 P7 1 BiteSight: Development of a Mobile Deep Learning Application for Bug Bite Identification

**Student(s)** Cayden Joseph **Grade** 7 **Town** West Haven

**New Haven** Engineering and Science University Magnet Paula Matei-Grysiak

6007 PS 3 Real-Time Adaptive Support for Dementia: An Integrated Multimodal Device for Spatial and Auditory Guidance

**Student(s)** Ethan Joseph **Grade** 11 **Town** West Haven

**New Haven** Engineering and Science University Magnet Alyssa Anderson

6530 PST 3 Gpu price to performance per game.

**Student(s)** Maceo Regan **Grade** 9 **Town** Milford

antonio roblero **Grade** 9 **Town** fair haven

**New Haven** Engineering and Science University Magnet Alyssa Anderson

3156 LS 1 Capturing Carbon Dioxide with Chemical Solutions of Varying Alkalinity

**Student(s)** Anabelle Silverman **Grade** 9 **Town** New Haven

**New Haven** Engineering and Science University Magnet Alyssa Anderson

4011 PT 3 Which Material Erodes The Most

**Student(s)** Jacob Werlin **Grade** 7 **Town** New haven

Finnian Dooley **Grade** 7 **Town** New Haven

**New Haven** Hopkins School Viktoriia Kolesnyk

3097 LS 2 Understanding Uterus Wound Healing and Tissue Remodeling: The Role of Fibroblast Growth Factor 2

**Student(s)** Derin Bahtiyar **Grade** 11 **Town** New Haven

**New Haven** Hopkins School Phillip Stewart

6040 PS 2 Arduino-Based Active Stabilization System for Model Rockets Using IMU Feedback and Servo-Driven Fins

**Student(s)** Aiden Gomez **Grade** 10 **Town** Orange

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**New Haven** Hopkins School Z Ping Lin  
3078 LS 1 Investigating the Role of Rad52 Inhibition in HR Repair in Ovarian Cancer  
**Student(s)** Riya Rao **Grade** 12 **Town** Woodbridge

**New Haven** Hopkins School Leilei Shinohara  
5521 P8 2 Optical Fire Detection using Computer Vision  
**Student(s)** Maki Lawrence Shinohara **Grade** 8 **Town** New Haven

**New Haven** Hopkins School Yi Wang  
3025 LS 2 Nano-Enabled Defense: Using Sulfur Nanoparticles to Limit Cadmium in Soybeans  
**Student(s)** Luannie Wang **Grade** 10 **Town** Guilford

**New Haven** Hopkins School Phillip Stewart  
3021 LS 3 How does the expression or dysfunction of KCC2 protein relate to epilepsy and a potential treatment  
**Student(s)** Heli (Aurelia) Wen **Grade** 11 **Town** Woodbridge

**New Haven** Sound School Charles Mulligan  
3529 LST 2 Potential Impact of PET Leachate on Nutrient Uptake of Marine Microalgae  
**Student(s)** Violet Sibley **Grade** 12 **Town** New Haven  
Gabriella Belizaire **Grade** 11 **Town** Hamden

**New Haven** Wilbur Cross High School John Lazzari  
3140 LS 1 Studying Compositionality in Multitasking Artificial Neural Networks for Motor Control  
**Student(s)** Julian Theodore **Grade** 12 **Town** New Haven

**New Haven** Worthington Hooker School Douglas Jones  
1030 LT 3 Natural Cleaners vs Chemical Cleaners  
**Student(s)** Paulina Borowski **Grade** 8 **Town** New Haven  
Camila Guerrero Diaz **Grade** 8 **Town** New Haven

**New Haven** Worthington Hooker School Douglas Jones  
1009 LT 3 Does light wavelength affect plant growth?  
**Student(s)** Ayra Tarabar **Grade** 8 **Town** New Haven  
Kayla Pinkard **Grade** 8 **Town** new Haven

**New Milford** Canterbury School Woo Rin Lee  
3061 LS 2 Eco-Friendly Floating Bio-Island for Simultaneous Removal of Heavy Metals from Polluted Water Using Aquatic Macrophytes  
**Student(s)** Minhyo Tae **Grade** 11 **Town** Seoul, South Korea

**North Haven** Slate School Jennifer Staple-Clark  
2514 L8 1 A Microbiology Study of Ancient and Modern Flours: Comparing Microbial and Chemical Changes in Leavening Systems  
**Student(s)** Pierson Clark **Grade** 8 **Town** North Haven

**Norwich** Norwich Technical High School Kaitlin McKale  
3526 LST 1 Using Loop-Mediated Isothermal Amplification (LAMP) for Hydrilla Verticillata Identification in New England Waters  
**Student(s)** Jarelis Acevedo **Grade** 12 **Town** Norwich  
Addison Hackett **Grade** 12 **Town** Willimantic

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**Norwich** Norwich Technical High School Kaitlin McKale  
3057 LS 3 Influence of microplastic size and density on the structure of microbial communities: Implications for soil health  
**Student(s)** Nyashia Bostick **Grade** 11 **Town** Willimantic

**Norwich** Norwich Technical High School Kaitlin McKale  
3010 LS 2 Blue Oyster Cult(ure): Using Pleurotus for Mycoremediation of Water Contaminants  
**Student(s)** Debbie Calixto Mota **Grade** 11 **Town** Willimantic

**Norwich** Norwich Technical High School Kaitlin McKale  
3004 LS 2 Effects of Environmental Conditions on Bone Degradation.  
**Student(s)** Ruby Craig **Grade** 11 **Town** Moosup

**Norwich** Norwich Technical High School Kaitlin McKale  
3100 LS 2 Investigation of microbial pigments for use as an antimicrobial  
**Student(s)** Kivannys Diaz Ruiz **Grade** 11 **Town** moosup

**Norwich** Norwich Technical High School Kaitlyn McKale  
3098 LS 2 what plants bees prefer to pollinate with  
**Student(s)** Elijah Jackman **Grade** 11 **Town** voluntown

**Norwich** Norwich Technical High School Kaitlin McKale  
3022 LS 3 Gut content analysis of the invasive European Green Crab *Carnius maenas*  
**Student(s)** Lily Kosma **Grade** 11 **Town** Moosup

**Norwich** Norwich Technical High School Kaitlin Mckale  
3196 LS 1 The Effects of Skin Care Products on the Face Microbiome  
**Student(s)** Emma Stimson **Grade** 11 **Town** Moosup

**Plainville** Plainville High School Michelle Bellinger  
6005 PS 1 Improving Airplane Efficiency and Maximizing a Sustainable Angle of Attack Through Acoustic Streamlining  
**Student(s)** Raman Kasabrukhou **Grade** 10 **Town** Plainville

**Pomfret** Pomfret School Gwyneth Connell  
3210 LS 2 Cortisol-Induced Epigenetic Changes in Skin Cells and the Potential of Plant-Derived Exosomes for Reversing Stress-Induced Skin Aging  
**Student(s)** Euhyun Jahng **Grade** 11 **Town** Seoul

**Pomfret** Pomfret School Annie O'Sullivan  
6124 PS 2 Leg exoskeletons that can help people with leg disabilities walk  
**Student(s)** Jiazhi Zhao **Grade** 10 **Town** Pomfret

**Redding** Joel Barlow High School Katherine Nuzzo  
3166 LS 2 Impact of Drought-Induced Stress on The Accumulation of Polysaccharide and Glucosinolate levels in *Raphanus sativus* Roots, and Their Possible Implications on the Gut Microbiome  
**Student(s)** Victoria Abukhovich **Grade** 11 **Town** Redding

**Redding** Joel Barlow High School Paul Testa  
6054 PS 2 Adaptive Authentication Against DDoS Attacks: A Performance Analysis  
**Student(s)** Christopher Alvarado **Grade** 11 **Town** Easton

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**Redding** Joel Barlow High School Kathrine Nuzzo  
3189 LS 3 Pediatric school stress and biomarkers for respiratory health in teenagers  
**Student(s)** Sierra Iacovella **Grade** 9 **Town** Easton

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**Redding** Joel Barlow High School Katherine Nuzzo  
6045 PS 2 Novel Approach for Viewing Quantum Superposition  
**Student(s)** Randy Rivera **Grade** 12 **Town** Redding

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**Ridgefield** Ridgefield High School Ryan Gleason  
3531 LST 2 The effect of temperature on Swamp Milkweed germination and growth rates,  
**Student(s)** Leighton Accinelli **Grade** 12 **Town** Ridgefield  
Stella Accinelli **Grade** 12 **Town** Ridgefield

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**Ridgefield** Ridgefield High School Ryan Gleason  
3041 LS 3 Testing Human Ability to Detect AI Generated Faces Across Trials  
**Student(s)** Erin Byrne **Grade** 12 **Town** Ridgefield

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**Ridgefield** Ridgefield High School Patrick Hughes  
6523 PST 1 A Nuclear Magnetic Resonance Spectroscopy Study of Five Di-imine Molecules  
**Student(s)** Eva Figlar **Grade** 12 **Town** Ridgefield  
Anahit Abernethy **Grade** 11 **Town** Ridgefield

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**Ridgefield** Ridgefield High School Ryan Gleason  
3141 LS 2 Prevalence of Pathogens in Asian Longhorn Ticks (Haemaphysalis Longicornis) in Bridgeport Connecticut  
**Student(s)** Sara Hill **Grade** 12 **Town** Ridgefield

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**Ridgefield** Ridgefield High School Ryan Gleason  
3030 LS 2 The Effects of Glucose on Traumatic Brain Injury Recovery in Drosophila Relevant to Chronic Traumatic Encephalopathy  
**Student(s)** William Knispel **Grade** 11 **Town** Ridgefield

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**Ridgefield** Ridgefield High School Adam Vigil  
3167 LS 2 Assessment of Accuracy in Predicting Human Clearance for Linear Monoclonal Antibodies from Animal Models  
**Student(s)** Hancheng Peng **Grade** 11 **Town** Ridgefield

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**Rocky Hill** Rocky Hill High School Brian Graca  
6090 PS 3 Evaluating Post-Pandemic Recoveries in Standardized Test Scores across Connecticut School Districts and their Explanatory Factors  
**Student(s)** Akaansha Ganisshan **Grade** 11 **Town** Rocky Hill

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**Rocky Hill** Rocky Hill High School Sharon Parker  
3053 LS 1 The correlation of gut microbes with depression in patients with multiple sclerosis  
**Student(s)** Tanisha Sahu **Grade** 11 **Town** Rocky Hill

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**Rocky Hill** Rocky Hill High School Sharon Parker  
3130 LS 2 Identifying Psychiatric Disorder Risk Genes: Computational Multi-Omic Analysis of Gene Expression and Chromatin Accessibility Comparing Developing vs. Adult Prefrontal Cortex  
**Student(s)** Ashika Sharma **Grade** 11 **Town** Rocky Hill

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**Salisbury** Indian Mountain School Marissa Teator  
1014 LT 2 The Dividing Line of Language: A Computational Model and Cross-Cultural Analysis of How Linguistic Labels Reshape "Chaotic" Perception

**Student(s)** Kelly Chen **Grade 7** **Town** Lakeville  
Xinyue Zhang **Grade 7** **Town** Lakeville

**Salisbury** The Hotchkiss School Jennifer Rinehart  
3149 LS 2 A novel ferritin delivery system targeting glioblastoma

**Student(s)** Jerry Fan **Grade 11** **Town** Watervliet

**Salisbury** The Hotchkiss School Jennifer Rinehart  
3183 LS 1 Disrupting the Inflammatory–Fibrotic Circuit: Evaluating Galectin-3 Inhibition as a Novel Non-Hormonal Therapy for Adenomyosis

**Student(s)** Yunting Jin **Grade 10** **Town** Lakeville

**Salisbury** The Hotchkiss School Jennifer Rinehart  
3026 LS 2 Trends in Early-Onset Cancer and Associations With Obesity, Alcohol Use, Marijuana, and Nicotine Use in the United States

**Student(s)** Arya Samat **Grade 9** **Town** Avon

**Salisbury** The Hotchkiss School Jennifer Rinehart  
3064 LS 2 Exploring potential biomarkers involved in oxidative stress and intercellular crosstalk in diabetic microvascular complications

**Student(s)** Xirong(Hermione) Wu **Grade 11** **Town** Salisbury

**Salisbury** The Hotchkiss School Jennifer Rinehart  
3175 LS 2 Salt Form Modification of Resveratrol: A Novel Approach for Creating an Effective Cardiovascular Drug

**Student(s)** William Xie **Grade 10** **Town** Lakeville

**Salisbury** The Hotchkiss School Jennifer Rinehart  
3162 LS 1 Iron Biofortification in Portulaca oleracea: A Comparative Analysis of Iron Accumulation and Bioavailability in Root, Stem, and Leaf Under Soil and Hydroponic Conditions.

**Student(s)** Chuyao (Yaoyao) Yuan **Grade 11** **Town** Lakeville

**Shelton** Shelton Intermediate School Rebecca Manzer  
1008 LT 2 What Is The Best Way To Preserve Strawberries?

**Student(s)** Corinne Cortinhas **Grade 8** **Town** Shelton  
Ellie Randall **Grade 8** **Town** Shelton  
Jayce Micholovich **Grade 8** **Town** Shelton

**Shelton** Shelton Intermediate School Rebecca Manzer  
1021 LT 3 What Is the Dirtiest Public Restroom?

**Student(s)** Charlotte Goncalves **Grade 7** **Town** Shelton  
Sienna Basile **Grade 7** **Town** shelton

**Shelton** Shelton Intermediate School Rebecca Manzer  
1002 LT 1 Impact of Varying Wavelengths of Light and Controlled Environmental Conditions on the Degredation of Vitamin C Potency in Fruits

**Student(s)** Aria O'Connor **Grade 8** **Town** Shelton  
Anna Campbell **Grade 8** **Town** Shelton

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<b>Simsbury</b>	Westminster School	Mike Van Dolah				
6513	PST	1	Multi-Function Submersible for Microplastic Collection and Aquatic Environmental Analysis			
<b>Student(s)</b>		<b>Muqiao Zong</b>	<b>Grade</b>	10	<b>Town</b>	Simsbury
		<b>Andrew Ma</b>	<b>Grade</b>	11	<b>Town</b>	Simsbury

<b>South Windsor</b>	South Windsor High School	April Davis				
6508	PST	3	Green Light AI			
<b>Student(s)</b>		<b>Devdutt Bhatte</b>	<b>Grade</b>	10	<b>Town</b>	South Windsor
		<b>Jude Pohl</b>	<b>Grade</b>	10	<b>Town</b>	South Windsor
		<b>Srivashist Gaddam</b>	<b>Grade</b>	10	<b>Town</b>	South Windsor

<b>South Windsor</b>	South Windsor High School	Danel Eitel				
3209	LS	2	TRACK I-S: Predicting Future Lyme Disease Risk Zones in CT Counties through a Scratch-Based Simulation			
<b>Student(s)</b>		<b>Chiamaka Chidiadi</b>	<b>Grade</b>	10	<b>Town</b>	South Windsor

<b>South Windsor</b>	South Windsor High School	Danel Eitel				
6076	PS	2	Trash To Treasure			
<b>Student(s)</b>		<b>Kaitlyn Earley</b>	<b>Grade</b>	10	<b>Town</b>	South Windsor

<b>South Windsor</b>	South Windsor High School	Danel Eitel				
6526	PST	2	SHAP-Interpretable Random-Forest Analysis of Multimodal Brownfield Site Data for Cost-Aware, Community-Driven Bioremediator Recommendations			
<b>Student(s)</b>		<b>Gian Handa</b>	<b>Grade</b>	10	<b>Town</b>	South Windsor
		<b>Nevin Joseph</b>	<b>Grade</b>	10	<b>Town</b>	South Windsor

<b>South Windsor</b>	South Windsor High School	Danel Eitel				
6036	PS	2	Q.U.A.R.K.: A Quantitative Urban Anomaly Risk Kinetics Model for Forecasting Climate-Driven Human Displacement Using Multi-Factor Time-Series Analysis			
<b>Student(s)</b>		<b>Saisatvik Koppu</b>	<b>Grade</b>	10	<b>Town</b>	South Windsor

<b>South Windsor</b>	South Windsor High School	April Davis				
6516	PST	2	Developing Eco Friendly Sunscreen Formulations With Optimized Ingredient Concentrations to Reduce Zebrafish and Aquatic Ecosystem Toxicity			
<b>Student(s)</b>		<b>Akshara Labhe</b>	<b>Grade</b>	10	<b>Town</b>	South Windsor
		<b>Charvi Dixon Islur</b>	<b>Grade</b>	10	<b>Town</b>	South Windsor
		<b>Siva Nalamolu</b>	<b>Grade</b>	10	<b>Town</b>	South Windsor

<b>South Windsor</b>	South Windsor High School	Danel Eitel				
3095	LS	1	A Quantitative Evaluation of Microplastic Degradation Using Enzyme Kinetics and Binding Energy			
<b>Student(s)</b>		<b>Rachel Mathew</b>	<b>Grade</b>	10	<b>Town</b>	South Windsor

<b>South Windsor</b>	South Windsor High School	Danel Eitel				
3193	LS	1	Salt-Eating BioTiles: A Sustainable Solution to Combat Soil Salinity Using Halobacterium			
<b>Student(s)</b>		<b>Prasheeta Mohanty</b>	<b>Grade</b>	10	<b>Town</b>	South Windsor

<b>South Windsor</b>	South Windsor High School	Danel Eitel				
6011	PS	2	From Fumes to Fertilizer: A Dual-Stage Catalytic System Converting Livestock Methane into Carbonate for Sustainable Crop Growth			
<b>Student(s)</b>		<b>Aniron Pal</b>	<b>Grade</b>	10	<b>Town</b>	South Windsor

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**South Windsor** South Windsor High School Danel Eitel  
6533 PST 2 Project MASTERMIND: Mobilizing Actuarial Science To Extrapolate Risk Maps Identifying Natural Disasters

**Student(s)** Keshav Prem **Grade** 10 **Town** South Windsor  
Henry Venne **Grade** 10 **Town** South Windsor

**South Windsor** South Windsor High School Danel Eitel  
3518 LST 3 Cyanopanel

**Student(s)** Diva Shajith **Grade** 10 **Town** South Windsor  
Amariah Ysabelle Luci **Grade** 10 **Town** South Windsor  
Sahasra Natti **Grade** 10 **Town** South Windsor

**Southington** Southington High School Nicole Riccio  
3516 LST 3 Application of powdered magnetite as an absorbent for petroleum spill removal from seawater.

**Student(s)** Esra Agirman **Grade** 10 **Town** Southington  
Vaibhav Reddy Nandi Reddy **Grade** 10 **Town** Southington

**Stamford** King School Victoria Schulman  
6088 PS 1 Real-Time Instance Segmentation for Curb and Path Detection in Assistive Wearables for Blind and Low-Vision Assistance

**Student(s)** Olivia Ajayi **Grade** 11 **Town** Stamford

**Stamford** King School Victoria Schulman  
6072 PS 2 Predicting Detectability of Transiting Exoplanets: A Python-based Signal-to-Noise Ratio Model

**Student(s)** Mia Jakubowsky **Grade** 11 **Town** Rye

**Stamford** King School Victoria Schulman  
3114 LS 3 Potential Medications to Treat Concussion in D. melanogaster as a Model Organism

**Student(s)** Kleighton Kennedy **Grade** 11 **Town** Greenwich

**Stamford** King School Victoria Schulman  
3017 LS 2 Illuminating the Role of Lipid Metabolism Pathways in T-cell Exhaustion

**Student(s)** Madison Kennedy **Grade** 11 **Town** Greenwich

**Stamford** King School Victoria Schulman  
6014 PS 2 A Voice-Controlled Robotic Arm for Assisting Complex Surgical Tasks

**Student(s)** Dillon Maltese **Grade** 12 **Town** Greenwich

**Stamford** King School Victoria Schulman  
3146 LS 3 Effects of Dietary Sugars on Bone Mass and Mechanical Strength

**Student(s)** Max Marti **Grade** 11 **Town** New Canaan

**Stamford** King School Victoria Schulman  
3202 LS 2 Assessing the Effects of GLP-1 Receptor Agonists on Digestion in Drosophila Melanogaster

**Student(s)** Nicholas Marti **Grade** 11 **Town** New Canaan

**Stamford** King School Victoria Schulman  
3197 LS 1 CX3CR1+ Cell Type-Specific ERK Hyperactivation Promotes Inflammatory Remodeling

**Student(s)** Lilah Mehta **Grade** 11 **Town** New Canaan

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**Stamford** King School Victoria Schulman  
3082 LS 2 Alarmin release by renal cell carcinoma cells undergoing hypoxia-induced cell death  
**Student(s) Mahnoor Nomani** **Grade 11** **Town** Stamford

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**Stamford** King School Victoria Schulman  
6083 PS 2 A Sustainable Treatment For Heavy Metal Pollution: Adsorption and Desorption of Ni(II) Ions In Water Using DNA-Wrapped Carbon Nanotubes  
**Student(s) Bruno Reinhoefer Ribeiro** **Grade 12** **Town** Riverside

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**Stamford** King School Victoria Schulman  
6038 PS 2 Design and Application of Gamified Health Tools: From Population-Level Habit Formation to Clinical Evaluation in Traumatic Brain Injury  
**Student(s) Vito Scutari** **Grade 12** **Town** Norwalk

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**Stamford** King School Victoria Schulman  
3108 LS 2 Assessing the Effects of Equine Grazing Muzzles on Upper Incisor Length and Dental Qualities in Ponies  
**Student(s) Marilyn Sommerville** **Grade 11** **Town** South Salem

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**Stamford** King School Victoria Schulman  
3204 LS 3 Experimentation and Application of Nutrient Additives to Enhance Resilience of Coral Reefs Against Climate Change  
**Student(s) Lucia Vivanco** **Grade 12** **Town** Stamford

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**Stamford** Laurel Springs School Vera Ulanovskaya  
6096 PS 2 Driven By Demand: A Mixed-Integer Linear Programming Framework to Optimize the Efficiency and Quality of Bus Services in Stamford, CT  
**Student(s) Victoria Makarov** **Grade 12** **Town** Stamford

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**Stonington** St. Michael School Anna-Helene Grossomanides  
5518 P8 3 Investigating the effect of tire type on robot performance  
**Student(s) Tyler Baltrukonis** **Grade 8** **Town** Pawcatuck

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**Stonington** St. Michael School Anna Grossomanides  
2007 L7 1 Sweet Science: How Sugars Fuel Yeast Vs. Humans  
**Student(s) Audrina Chapman Roberts** **Grade 7** **Town** westerly

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**Stonington** St. Michael School Anna-Helene Grossomanides  
5016 P7 3 Potter Hill Problem  
**Student(s) Vito Gynther** **Grade 7** **Town** Westerly

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**Stonington** St. Michael School Anna-Helene Grossomanides  
2507 L8 3 To Swim or Not To Swim  
**Student(s) Camille Thomas** **Grade 8** **Town** Gales Ferry

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**Stratford** St. Mark School Patrick Fallon  
2008 L7 1 The Rust Race  
**Student(s) Arianna Chuco** **Grade 7** **Town** stratford

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**Stratford** St. Mark School Andrea Borbor  
5512 P8 2 Crash! Testing Model Cars  
**Student(s) Stella Jass** **Grade 8** **Town** Trumbull

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**Suffield** Suffield Academy Heng Song  
3152 LS 2 Engineered Probiotic OMs Overcome IBD Therapeutic Barriers via Dual-Gene Editing & ClyA-SOD Membrane Fusion  
**Student(s)** Jingshu Wang **Grade** 10 **Town** Shanghai

**Suffield** Suffield High School Sam Harfenist  
6102 PS 2 Evaluation of Environmental Parameters and Design Optimization for Kirigami-Inspired Parachutes  
**Student(s)** Arnav Ukidwe **Grade** 11 **Town** Suffield

**Suffield** Suffield High School Sam Harfenist  
6068 PS 2 Multivariate and Bayesian Regression Modeling of Stock Performance using Microeconomic, Macroeconomic, and Momentum based Predictors.  
**Student(s)** Shaunak Ukidwe **Grade** 11 **Town** Suffield

**Trumbull** Trumbull Agriscience & Biotechnology Kevin Boken  
6529 PST 3 Using pro-biotics in sports drinks to reduce inflammation  
**Student(s)** Elianna Brocco **Grade** 11 **Town** Shelton  
Karina Castro Conde **Grade** 11 **Town** Bridgeport  
Yashila Suresh **Grade** 11 **Town** Shelton

**Trumbull** Trumbull Agriscience & Biotechnology Kevin Boken  
6056 PS 3 Development of a Multi-Axis Adaptive Inertia Regulation Exoskeleton System: A Counter-Rotational Gyroframe for Stabilization and Energy Efficiency  
**Student(s)** Johnathon Lin **Grade** 10 **Town** Bridgeport

**Trumbull** Trumbull Agriscience & Biotechnology Kevin Boken  
3533 LST 3 The affect of acetaminophen LST on children during pregnancy and risk of neurodevelopmental disorders.  
**Student(s)** Daniel Pereira **Grade** 11 **Town** Bridgeport  
Selvin Lemus-Solano **Grade** 11 **Town** Bridgeport

**Trumbull** Trumbull Agriscience & Biotechnology Kevin Boken  
3505 LST 2 Foods Containing Allicin Affect on Killing Resistant Bacteria  
**Student(s)** Atiya Rogers **Grade** 11 **Town** Bridgeport  
Melanie Vasquez **Grade** 11 **Town** Bridgeport

**Trumbull** Trumbull Agriscience & Biotechnology Kevin Boken  
3181 LS 3 Comparative analysis of the performance proficiency between CRISPR-Cas9 and CRISPR-Cas12a in crop and bacterium genome genetic modification  
**Student(s)** Autumn Settembre **Grade** 10 **Town** Trumbull

**Trumbull** Trumbull Agriscience & Biotechnology Kevin Boken  
3532 LST 3 Analyzing The Decline of Sickle Cell Genes in Regions Where Malaria Has Disappeared  
**Student(s)** Keeley Tolido **Grade** 11 **Town** Stratford  
Olivia Kish **Grade** 11 **Town** Shelton  
Adriana Castillo **Grade** 11 **Town** Trumbull

**Trumbull** Trumbull Agriscience & Biotechnology Kevin Boken  
3120 LS 1 Optimizing the Mechanical Strength of Mycelium-Based Composites (MBCs) Through Substrate Manipulation  
**Student(s)** Madeline Totten **Grade** 11 **Town** Trumbull

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**Wallingford** Choate Rosemary Hall Talia Dell Angelo

6009	PS	2	Conics Determined By Triangle Centers In Ceva-Six Configurations
<b>Student(s)</b> Benjamin Cha			<b>Grade</b> 11 <b>Town</b> Tenafly

**Wallingford** Choate Rosemary Hall Yunfei Bai

6028	PS	3	Multi-degree-of-freedom Synchronous-driven Spinal Rehabilitation Exoskeleton for Post-injury and Postoperative Recovery
<b>Student(s)</b> Grace Ju			<b>Grade</b> 11 <b>Town</b> Wallingford

**Wallingford** Choate Rosemary Hall Jan Cook

3111	LS	1	Innovative Restoration of Coastal Marine Ecosystems: Phage-Based Disease Control and pH Modulation in Connecticut Waters
<b>Student(s)</b> Taeyoung Kim			<b>Grade</b> 10 <b>Town</b> Seattle

**Wallingford** Choate Rosemary Hall George Gu

6111	PS	1	NeuroMirror: An Intelligent EEG-Driven Mirror Therapy System Grounded in Hebbian Theory for Post-Stroke Upper-Limb Rehabilitation
<b>Student(s)</b> Sabrina Liu			<b>Grade</b> 10 <b>Town</b> Wallingford

**Wallingford** Choate Rosemary Hall Talia Dell Angelo

6531	PST	2	Harvesting Water from Air: Optimization of a Novel Solar-Powered Atmospheric Water Generator
<b>Student(s)</b> Hsiao Chian Tseng			<b>Grade</b> 11 <b>Town</b> Bellevue
			<b>Grade</b> 11 <b>Town</b> Haverford

**Wallingford** Choate Rosemary Hall Jan Cook

6018	PS	3	AquaAcoustic AI: A Low-Cost Intelligent Device for Rapid Reagent-Free Water Quality Assessment via Acoustic Resonance
<b>Student(s)</b> Neil Wang			<b>Grade</b> 11 <b>Town</b> North York

**Washington** The Frederick Gunn School Morgen Fisher

3084	LS	2	Dose-Dependent Effects of Chitosan Nanoparticles on Human Fibroblast Proliferation and Skin Wound Closure
<b>Student(s)</b> Eva Kwon			<b>Grade</b> 11 <b>Town</b> Washington

**Washington** The Frederick Gunn School Morgen Fisher

3123	LS	1	Identify NK Cell Global Changes during Breast Cancer Development via Analyzing Single-cell Transcriptomes in Human Breast
<b>Student(s)</b> Xuena Zhang			<b>Grade</b> 11 <b>Town</b> Lexington

**Waterbury** ACES Chase Academy Anne Pember

5013	P7	2	Exploring Scent Movement and Diffusion
<b>Student(s)</b> Ayanna Aybar			<b>Grade</b> 7 <b>Town</b> Waterbury

**Waterbury** ACES Chase Academy Anne Pember

6004	PS	3	Live-All Purpose GPS Tracker using Arduino
<b>Student(s)</b> Fernando Figueiredo			<b>Grade</b> 9 <b>Town</b> Naugatuck

**Waterbury** ACES Chase Academy Anne Pember

5001	P7	2	Strength of Passwords Based on Character Combinations
<b>Student(s)</b> Tessa Finch			<b>Grade</b> 7 <b>Town</b> Bethlehem

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**Waterbury** ACES Chase Academy Anne Pember  

4008	PT	3	How Temperature Changes Influence Ocean Currents
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<b>Student(s)</b>	<b>Haley Galvin</b>	<b>Grade 7</b>	<b>Town</b> Waterbury
	<b>Sheyla Martos Carchi</b>	<b>Grade 7</b>	<b>Town</b> Waterbury

**Waterbury** ACES Chase Academy Anne pember  

3184	LS	3	Dominat salt marsh species, Spartina alterniflora and Geukensia demissa, being used to mesure the health of a marsh.
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<b>Student(s)</b>	<b>Nina Garcia</b>	<b>Grade 10</b>	<b>Town</b> Waterbury
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**Waterbury** ACES Chase Academy Rachel Murray  

1032	LT	2	Human Ability to Detect AI-Generated Images: A Comparative Photo Survey
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<b>Student(s)</b>	<b>Charlotte Joyce</b>	<b>Grade 7</b>	<b>Town</b> Prospect
	<b>Kamryn Torres</b>	<b>Grade 7</b>	<b>Town</b> Naugatuck

**Waterbury** ACES Chase Academy Anne Pember  

6078	PS	2	A Comparative Analysis of CPU Utilization in Bubble Sort and Merge Sort.
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<b>Student(s)</b>	<b>Aarshman Khan</b>	<b>Grade 9</b>	<b>Town</b> Waterbury
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**Waterbury** ACES Chase Academy Anne Pember  

1024	LT	2	From Food Waste to Water Bottles: Testing Avocado (Persea Americana) Skins as a Sustainable Material
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<b>Student(s)</b>	<b>Emalyn Lemos</b>	<b>Grade 7</b>	<b>Town</b> Oakville
	<b>Camila Ruiz-Ribeiro</b>	<b>Grade 7</b>	<b>Town</b> Waterbury

**Waterbury** ACES Chase Academy Anne Pember  

5018	P7	3	Breaking Down Rust with Everyday Liquids
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<b>Student(s)</b>	<b>Tallulah Madore</b>	<b>Grade 7</b>	<b>Town</b> Meriden
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**Waterbury** ACES Chase Academy Anne Pember  

1017	LT	2	Galleria Melonella Larvae as Plastic Eaters: Myth or Fact?
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<b>Student(s)</b>	<b>Mason Mercado</b>	<b>Grade 7</b>	<b>Town</b> Waterbury
	<b>Jason Deo</b>	<b>Grade 7</b>	<b>Town</b> Waterbury

**Waterbury** ACES Chase Academy Anne pemper  

6115	PS	3	AI-Based Adaptive Street Safety Assistant for the Visually Impaired
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<b>Student(s)</b>	<b>Kauan Nascimento</b>	<b>Grade 10</b>	<b>Town</b> waterbury
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**Waterbury** ACES Chase Academy Rachel Murray  

1010	LT	2	Germ Geography: Mapping Microbes Around Our School
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<b>Student(s)</b>	<b>Liam St. Germain</b>	<b>Grade 7</b>	<b>Town</b> Waterbury
	<b>Brian Devoe</b>	<b>Grade 7</b>	<b>Town</b> Waterbury

**Waterbury** ACES Chase Academy Anne Pember  

5007	P7	2	Cake Chemistry and Leavening Agents
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<b>Student(s)</b>	<b>Kamila Tellez</b>	<b>Grade 7</b>	<b>Town</b> Waterbury
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**Waterbury** ACES Chase Academy Anne Pember  

6022	PS	2	Using chitin and chitin-based derivatives to remove and remediate nitrates.
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<b>Student(s)</b>	<b>Kathryn Thibeault</b>	<b>Grade 9</b>	<b>Town</b> Waterbury
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**Watertown** The Taft School Amanda Benedict  
3179 LS 2 Investigating the Neuroprotective and Stress-Modulating Effects of Oxytocin on Human Cells under Cortisol-Induced Stress Conditions  
**Student(s)** Esther Lee **Grade** 10 **Town** Watertown

**Watertown** The Taft School Amanda Benedict  
6016 PS 2 Monte Carlo Simulation-Based Probability Model of Wildfire Spread on a Two-Dimensional Grid  
**Student(s)** Hyunseung Lee **Grade** 10 **Town** Woodbury

**Watertown** The Taft School Amanda Benedict  
3043 LS 3 Impact of Photosynthetic Pathway on Trait Tradeoffs and Nitrogen Use in Bromeliads  
**Student(s)** Qinrong Qian **Grade** 11 **Town** Watertown

**Watertown** The Taft School Amanda Benedict  
3521 LST 1 Finding a New Class of Inhibitors for IL-1 $\beta$  (interleukin-1 beta) Towards the Cure of Age Related Macular Degeneration  
**Student(s)** Jonathan So **Grade** 11 **Town** Watertown  
Jamie Ho **Grade** 11 **Town** Lawrence Township

**Watertown** The Taft School Anton Antonov  
6099 PS 2 Neural A\*: Learning-Guided, Bounded-Optimal Path Planning for Cluttered Maps  
**Student(s)** Andreas Tsang **Grade** 10 **Town** Watertown

**Watertown** The Taft School Amanda Benedict  
6070 PS 1 A Novel Equestrian Virtual Reality-Based Coordination Rehabilitation System for Post-Stroke Motor Recovery  
**Student(s)** Mily Xue **Grade** 10 **Town** Watertown

**West Hartford** Kingswood Oxford Ashkan Novin  
3178 LS 1 A Multi-Modal AI/ML Platform for Neurodegenerative Risk Prediction: Integrating Epigenetic Signatures through cfDNA Methylation and Functional Mobility Data  
**Student(s)** Rhea Doshi **Grade** 10 **Town** Farmington

**West Hartford** Kingswood Oxford Allison Tucker  
5524 P8 2 Evaluating the Effectiveness of Nano-ZnO in Removing Heavy Metals from Petroleum Refinery Wastewater  
**Student(s)** London Veseskis **Grade** 8 **Town** Wethersfield

**West Haven** Notre Dame High School Omar Espinosa  
3107 LS 3 Decoding Adhesion Proteins: Computational Insights for Smarter Brain-on-a-Chip Interfaces  
**Student(s)** Siddarth Kothandam **Grade** 11 **Town** Hamden

**Weston** Weston High School Stacey Greenberg  
6507 PST 2 Prometheus: Discovering Novel Quantum Critical Phenomena in Disordered Systems Using Unsupervised Deep Learning  
**Student(s)** Brandon Yee **Grade** 12 **Town** Weston  
Maximilian Rutkowski **Grade** 12 **Town** Weston  
Wilson Collins **Grade** 12 **Town** Weston

**Westport** Greens Farms Academy Mathieu Freeman  
6062 PS 3 A Novel Proposal for the Implementation of Microreactors & Conveyor Systems into the Transportation Phase of Mining to Eliminate Rock Truck CO<sub>2</sub> Emissions  
**Student(s)** Cannon Anderson **Grade** 12 **Town** weston

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**Westport** Greens Farms Academy Mathieu Freeman  
6053 PS 2 Evaluating the Effectiveness of Agricultural Waste-Derived Biochars Embedded in Sodium Alginate Hydrogel Beads for Mitigating Aqueous Copper Ion Toxicity  
**Student(s)** Anya Bhuyan **Grade** 11 **Town** Westport

**Westport** Greens Farms Academy Juli Gerdes  
3135 LS 3 Vitamin B's Effect on Delaying Alzheimer's  
**Student(s)** Skylar Dreas **Grade** 12 **Town** norwalk

**Westport** Greens Farms Academy Mathieu Freeman  
3113 LS 3 The Influence of Environment on Regenerative Inhibition of MyoD in Dugesia japonica  
**Student(s)** Brady Jordan **Grade** 12 **Town** Norwalk

**Westport** Greens Farms Academy Mathieu Freeman  
3080 LS 1 Comparative Efficacy of Intravenous vs. Intraosseous Tranexamic Acid in Simulated Hemorrhage and Warfarin-Altered Clotting  
**Student(s)** Dylan Karpf **Grade** 9 **Town** Westport

**Westport** Greens Farms Academy Mathieu Freeman  
6109 PS 1 Open Alert: A Novel Alert System For School Safety  
**Student(s)** Benjamin Kiev **Grade** 9 **Town** Westport

**Westport** Greens Farms Academy Mathieu Freeman  
6086 PS 3 The "Why" Behind the Move: Coding a Sudoku Tutor and Comparing It to an Optimized Solver  
**Student(s)** Anthony Low **Grade** 9 **Town** Westport

**Westport** Greens Farms Academy Juli Gerdes  
3131 LS 3 Investigating Neural Regeneration and Memory Retention in Dugesia Planaria Under Different Light Conditions as a Model for Stroke Recovery  
**Student(s)** Halle Monschein **Grade** 12 **Town** Norwalk

**Westport** Greens Farms Academy Mathieu Freeman  
3115 LS 2 The Influence of Dataset Size and Modality on No-Code AI Accuracy in Benign-Malignant Breast Cancer Classification.  
**Student(s)** Tyler Neiva **Grade** 12 **Town** Trumbull

**Westport** Greens Farms Academy Juli Gerdes  
3192 LS 1 How Climate Change's Alteration to the Protein Composition in Aedes aegypti Food Source Impacts Their Life History Traits  
**Student(s)** Lolade Oshin **Grade** 12 **Town** West Haven

**Westport** Greens Farms Academy Mathieu Freeman  
3154 LS 2 Chemical Detoxification as a Parameter for Assessing the Health of the New Creek Marsh  
**Student(s)** Tanvi Rajangam **Grade** 12 **Town** Westport

**Westport** Greens Farms Academy Mathieu Freeman  
6044 PS 2 Developing a Methodology to Predict Flash Flooding in Southwestern Connecticut Using Historic Flood Events and Weather Data  
**Student(s)** Oliver Rohrbasser **Grade** 12 **Town** Wilton

**Westport** Greens Farms Academy Julianne Gerdes  
3040 LS 3 The Psychology of Yondr Pouches and The Impact on Student Well-being  
**Student(s)** Amalia Slade **Grade** 12 **Town** Westport

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<b>Westport</b>	Greens Farms Academy	Mathieu Freeman	3016	LS	3	A Data-Driven Evaluation of Behavioral and Dermatologic Factors in Adolescent Skincare Practices in the Context of Social Media Exposure	<b>Student(s)</b> Anika Vaidheeswaran	<b>Grade</b> 11	<b>Town</b> Stamford
<b>Westport</b>	Staples High School	Amy Parent	6023	PS	2	Optimizing Fin Design for a Mars-Launched Rocket Using Open-Source Simulation	<b>Student(s)</b> Anit Arvind	<b>Grade</b> 11	<b>Town</b> Westport
<b>Westport</b>	Staples High School	Amy Parent	6034	PS	2	The Next Frontier: Vision Transformer Versus Convolutional Neural Network Architecture in Exoplanet Transit Classification	<b>Student(s)</b> Serena Diamond	<b>Grade</b> 10	<b>Town</b> Westport
<b>Westport</b>	Staples High School	Amy Parent	6025	PS	2	Evaluation the Therapeutic Potential of Curcumin in Improving Motor Neuron Health in Spinal Muscular Atrophy	<b>Student(s)</b> Sofia DiLeo	<b>Grade</b> 12	<b>Town</b> Westport
<b>Westport</b>	Staples High School	Amy Parent	3039	LS	1	Effect of Coenzyme Q10 and Epigallocatechin Gallate on Alpha-Synuclein Aggregation in Caenorhabditis elegans to Treat Parkinson's Disease	<b>Student(s)</b> Leah Dombrow	<b>Grade</b> 11	<b>Town</b> Westport
<b>Westport</b>	Staples High School	Amy Parent	3068	LS	3	Evaluating Caffeine and the Antioxidant Chlorogenic Acid on Depression in a Drosophila Model	<b>Student(s)</b> Hayley Epstein	<b>Grade</b> 11	<b>Town</b> Westport
<b>Westport</b>	Staples High School	Amy Parent	3013	LS	2	The Mechanisms Underlying the Mitigating Effects of Vitamin D Supplementation on Duchenne Muscular Dystrophy in C. elegans	<b>Student(s)</b> Nolan Francis	<b>Grade</b> 12	<b>Town</b> Westport
<b>Westport</b>	Staples High School	Amy Parent	3139	LS	1	Discovering Novel Targets for the FMN Riboswitch to Test the Utility of Computational RNA-folding Methods to Address Multidrug Antibiotic Resistance	<b>Student(s)</b> Jay Hari	<b>Grade</b> 12	<b>Town</b> Westport
<b>Westport</b>	Staples High School	Amy Parent	3077	LS	2	The activation of SKN-1 via the RNAi knockdown of wdr-23 to reduce oxidative stress from microplastics in Caenorhabditis elegans.	<b>Student(s)</b> William Kwong	<b>Grade</b> 11	<b>Town</b> Westport
<b>Westport</b>	Staples High School	Amy Parent	3190	LS	3	Effect of Stevia on A $\beta$ -Associated Toxicity in Drosophila melongaster	<b>Student(s)</b> Ana Losic	<b>Grade</b> 12	<b>Town</b> Westport
<b>Westport</b>	Staples High School	Amy Parent	3158	LS	2	Evaluating Toxicity of Natural and Synthetic Dyes in Caenorhabditis elegans: Identifying Safer Options for Consumables	<b>Student(s)</b> Vani Punia	<b>Grade</b> 11	<b>Town</b> westport

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**Westport** Staples High School Amy Parent  
3186 LS 1 Comparing deep learning architectures with multispectral imaging for early detection of Black Cutworms on Bush Beans

**Student(s)** Ezra Schwartz **Grade** 12 **Town** Westport

**Westport** Staples High School Amy Parent  
3063 LS 2 Can Your Diet Protect Against Microplastics? Discovering the Impact of Probiotic E. coli Strains on Microplastic-Induced Toxicity in C. elegans

**Student(s)** Sienna Schwartz **Grade** 11 **Town** Westport

**Westport** Staples High School Sanjay Ranka  
6106 PS 3 Lightweight Pill Recognition System with Machine and Deep Learning

**Student(s)** Sahil Vora **Grade** 11 **Town** Westport

**Westport** Staples High School Amy Parent  
3018 LS 3 Enhancing Superoxide Dismutase Stability Through Synthesis With Mesoporous Silica Nanoparticles Tested in C. elegans to Determine Its Potential Role in Breast Cancer Treatments

**Student(s)** Elise Yan **Grade** 11 **Town** Westport

**Wilton** Middlebrook School Janica Bagosy  
4016 PT 3 High-Speed Trains: How Maglev and Hyperloop Systems Are Modifying Transportation

**Student(s)** Miya Bu **Grade** 8 **Town** Wilton  
Jayden Mak **Grade** 8 **Town** Wilton

**Wilton** Middlebrook School Janica Bagosy  
1026 LT 3 How does pH affect plant growth

**Student(s)** Aishani Dibouliya **Grade** 8 **Town** Wilton  
Julia Zubarev **Grade** 8 **Town** Wilton

**Wilton** Middlebrook School Nancy Wakeham  
4012 PT 1 Green Walls: The Power of Plant-Based Materials for Home Cooling

**Student(s)** Wesley Marley **Grade** 7 **Town** Wilton  
Arrin Suri **Grade** 7 **Town** Wilton

**Wilton** Middlebrook School Jessica Garcia  
5514 P8 1 Treat Them Proteins! Using Technology to Help Damaged Enzymes

**Student(s)** Tanush Nareddy **Grade** 8 **Town** Wilton

**Wilton** Middlebrook School Nancy Wakeham  
4003 PT 2 Microplastics in daily life! An experimental study of exposure pathways and filtration solutions.

**Student(s)** Smruthi Natarajan **Grade** 7 **Town** Wilton  
Penelope Calo **Grade** 7 **Town** Wilton

**Wilton** Middlebrook School Janica Bagosy  
2519 L8 2 Smart Bandages for Dogs,

**Student(s)** Owen O'Dea **Grade** 8 **Town** Wilton

**Wilton** Middlebrook School Leah Pariso  
4002 PT 2 Dual Axis Automatic Solar Tracker

**Student(s)** Aarya Patel **Grade** 7 **Town** Wilton  
Aaryan Patel **Grade** 7 **Town** Wilton

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**Wilton** Middlebrook School Jessica Garcia  
5519 P8 1 How Microplastics in Water Affects Cymatics  
**Student(s)** Jiya Praveen **Grade 8** **Town** Wilton

**Wilton** Middlebrook School Allison Norful  
1031 LT 3 Human Versus Machine: Can Two Kids and a Quantum Computer Beat a "Magic: The Gathering" Professional?  
**Student(s)** Avery Schay **Grade 7** **Town** Wilton  
Jack Richardson **Grade 7** **Town** Wilton

**Wilton** Middlebrook School Janica Bagosy  
5525 P8 1 Smart Plant Care: Using Automation and AI  
**Student(s)** Pratap Sharma **Grade 8** **Town** Wilton

**Wilton** Wilton High School Nomita Ramchandani  
6026 PS 2 OleoFoam: A Magnetically Controlled Oleophilic Foam for Targeted Oil Absorption  
**Student(s)** Arav Gupta **Grade 10** **Town** Wilton

**Wilton** Wilton High School Matthew Hoyt  
6087 PS 2 Improving Space Weather Forecasting Through Multivariate Machine Learning Analysis for SPE (Solar Particle Event) Prediction.  
**Student(s)** Ishanvi Jaiswal **Grade 11** **Town** Wilton

**Windsor** Academy of Aerospace & Engineering Lili Aramli  
3116 LS 2 Analysis of CYP2D6 Genetic Variation Using TaqMan qPCR to Predict Drug Metabolizer Phenotype  
**Student(s)** Vanessa Bell **Grade 12** **Town** Windsor

**Windsor** Academy of Aerospace & Engineering Konda Chevva  
6101 PS 1 FAB-HEX : Fractal Shaped Additive and Bio-inspired Heat Exchanger  
**Student(s)** Aarav Chevva **Grade 10** **Town** Ellington

**Windsor** Academy of Aerospace & Engineering Lili Aramli  
3160 LS 1 The Investigation of Pro-Inflammatory Immune Cells Triggered By Exercise and Their Effect On Reproductive Cancer Tumor Models  
**Student(s)** Ana-Marlene Davis **Grade 9** **Town** Broad Brook

**Windsor** Academy of Aerospace & Engineering Lili Aramli  
6041 PS 3 Using House Air Filters for Energy Harvesting and Utilization in Everyday Life  
**Student(s)** Dylan Gao **Grade 10** **Town** Coventry

**Windsor** Academy of Aerospace & Engineering Joshua Madore  
6093 PS 2 Optimizing the Efficiency of Solar Cells using Enhanced Cooling Techniques.  
**Student(s)** Palaniappan Manikandan **Grade 10** **Town** Ellington

**Windsor** Academy of Aerospace & Engineering Lili Aramli  
6118 PS 3 Health-Track AI  
**Student(s)** Aaditya Sadhvani **Grade 10** **Town** Ellington

**Windsor** Academy of Aerospace & Engineering Lili Aramli  
6107 PS 2 Next-Generation Interplanetary Rovers: Embedded Neuromorphic Artificial Intelligence Control For Autonomous & Adaptive Terrain Exploration  
**Student(s)** Rithvik Suren **Grade 10** **Town** Ellington

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**Windsor** Madina Academy Jemilat Salami-Oyenuga  
1012 LT 1 Photoprotection of yeast, fact or fiction: Studying the effect of Ultraviolet ray C on the proliferation of Saccharomyces Cerevisiae via analysis in vitro cultivation

**Student(s)** **Salma Hassan** **Grade 8** **Town** Avon  
**Tajriyan Khan** **Grade 8** **Town** Agawam  
**Sohyla Hassan** **Grade 8** **Town** Avon

**Windsor** Madina Academy Basma Sallam  
3508 LST 2 Not All Collagen Concentration Is The Same: A Gel Strength Investigation

**Student(s)** **Zaynab Khawaja** **Grade 10** **Town** Agawam  
**Aleeza Ehmadi** **Grade 10** **Town** Manchester  
**Noor Hassan** **Grade 10** **Town** Avon

**Windsor** Madina Academy Jemilat Salami-Oyenuga  
1019 LT 1 Restoring Dead-Zones: The Role of High-Oxygen-Producing Vegetation in Assisting to Reduce Aquatic Hypoxia

**Student(s)** **Enaaya Mohammed** **Grade 8** **Town** Windsor  
**Nabaad Abdulkadir** **Grade 8** **Town** Plantsville  
**Musfira Bhuiyan** **Grade 8** **Town** Windsor

**Windsor** Madina Academy Jemilat Salami-Oyenuga  
5516 P8 2 Which Popsicle Stick Bridge Holds The Most Weight

**Student(s)** **Yusuf Nemlaghi Nemlaghi** **Grade 8** **Town** Windsor

**Windsor** The Loomis Chaffee School Fahmeed Sheehan  
6027 PS 2 Continual Learning with Elastic Weight Consolidation for Human Tree Person Test Frameworks

**Student(s)** **Ria Sunwoo An** **Grade 11** **Town** Windsor

**Windsor** The Loomis Chaffee School Fahmeed Sheehan  
6021 PS 2 Generation of a Uniform, Ultra-high Temperature, and Stable Plasma for Material Innovation

**Student(s)** **Ethan Feng** **Grade 11** **Town** South Windsor

**Windsor** The Loomis Chaffee School Fahmeed Sheehan  
3051 LS 1 Next-Generation E-Skin for Real-Time Monitoring to Prevent Livestock Disease Outbreak

**Student(s)** **Hyeonho Kim** **Grade 10** **Town** Windsor

**Windsor** The Loomis Chaffee School Fahmeed Sheehan  
6122 PS 1 LISTEN – A Robotic Leak Identification System using TDNN and ENhanced Acoustic Features for Pipeline Detection

**Student(s)** **Jiaxuan Li** **Grade 11** **Town** Cupertino

**Windsor** The Loomis Chaffee School Fahmeed Sheehan  
3165 LS 2 Bayesian Optimization Enables Ultra-Rapid and Accurate DNA Detection Using qPCR

**Student(s)** **Ethan Liu** **Grade 10** **Town** Farmington

**Windsor** The Loomis Chaffee School Fahmeed Sheehan  
6116 PS 2 Stair-Climbing Delivery Robot for Medical Logistics in Hospitals

**Student(s)** **Enhua Ma** **Grade 10** **Town** Medina

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**Windsor** The Loomis Chaffee School Zhaoyang Huang  
3071 LS 3 HTT-HDAC Axis links Major Depressive Disorder and Alzheimer's Disease: A Transformer-Based Multi-Omics Dissection  
**Student(s)** Yuechen Wang **Grade** 10 **Town** Windsor

**Windsor** The Loomis Chaffee School Fahmeed Sheehan  
3024 LS 3 How to Make Extra-curriculum Activities Work: Listening to Student Perspectives on Motivation and Outcomes  
**Student(s)** Calvin Weng **Grade** 11 **Town** New York

**Windsor** The Loomis Chaffee School Fahmeed Sheehan  
3019 LS 2 Can Dead Bacteria Clean Up Our Gardens? Using EPS-Rich Biomass and Biochar to Lower Soil Lead Below 200 ppm  
**Student(s)** Li-An Ye **Grade** 9 **Town** San Jose

**Woodbridge** Amity Regional High School Sarah Reeves  
6058 PS 1 Designing a Hybrid Ultrasound and Ambient RF Wireless Charging System for a Pacemaker While Minimizing Misalignment Loss  
**Student(s)** Karishma Balamurugan **Grade** 11 **Town** Orange

**Woodbridge** Amity Regional High School Sarah Reeves  
6506 PST 2 Real-Time Integration of a Compact Intracranial Pressure (ICP) Sensor to Benchmark NeuroProbe, a Multimodal Brain Monitoring Device, via Arduino-Based Data Translation  
**Student(s)** Akshay Bulsara **Grade** 12 **Town** Bethany  
Jacob Storeygard **Grade** 12 **Town** Woodbridge

**Woodbridge** Amity Regional High School Sarah Reeves  
3198 LS 2 Developing a Predictive App for Water Quality: Modeling E. Coli Quantification Through Spatiotemporal Variables  
**Student(s)** Chloe Chang **Grade** 11 **Town** Orange

**Woodbridge** Amity Regional High School Sarah Reeves  
3103 LS 3 Unilateral Leg Press Cross Education Training Effects on Strength, Endurance, and Movement Velocity in Trained Male High School Students  
**Student(s)** Jason Liang **Grade** 12 **Town** Woodbridge

**Woodbridge** Amity Regional High School Sarah Reeves  
6024 PS 3 Simulating Droplet Breakup in Obstacle Arrays Using the Deformable Particle Model  
**Student(s)** Nicholas Lu **Grade** 12 **Town** Woodbridge

**Woodbridge** Amity Regional High School Sarah Reeves  
3180 LS 1 Determining the Accuracy of Biomarker TNF- $\alpha$  in Predicting Ketamine Treatment Outcomes for Veterans with PTSD & MDD  
**Student(s)** Mila Mejnartowicz **Grade** 12 **Town** Woodbridge

**Woodbridge** Amity Regional High School Sarah Reeves  
3081 LS 3 Identifying EEG Markers of Neonatal Hypoxia Through Electroencephalography  
**Student(s)** Ashwin Menon **Grade** 12 **Town** Woodbridge

**Woodbridge** Amity Regional High School Sarah Reeves  
3174 LS 2 Detecting Psychosis Onset in CHR Individuals Using NLP-Based Speech Transcript Analysis  
**Student(s)** Mihir Nandy **Grade** 12 **Town** Woodbridge

# Conn. Science & Engineering Fair

## Preliminary Judging Results

[SchTown] [School] [Teacher]  
[Proj#] [FCat] [Honors] [Project Title]

**Woodbridge** Amity Regional High School Lindsay McCarthy

6048 PS 2 Developing a Fast Response Aerosol Optical Depth Monitor for Continuous Information on Ambient Particulate Matter

**Student(s)** Armaan Shrivastav **Grade** 11 **Town** Orange

**Woodbridge** Amity Regional High School Lindsay McCarthy

6012 PS 2 Developing a Bio-Hybrid Luminescent Solar Concentrator Using Carbon Quantum Dots, Natural Fluorophores, and Kaolin Powder for Enhanced Solar Energy Harvesting

**Student(s)** Aryan Shrivastav **Grade** 11 **Town** Orange

**Woodbridge** Amity Regional High School Lindsay McCarthy

3127 LS 1 Investigating the Impact of BRCA1/2 Co-Expression Gene Silencing on Chemotherapy Efficacy in Ovarian Cancer

**Student(s)** Charlotte Stannard **Grade** 12 **Town** Bethany

**Woodbridge** Amity Regional High School Sarah Reeves

3047 LS 2 Investigating the Association Between LEPR Expression in Breast Cancer (BC) Tumors with BC Survival, Stratified by Menopausal Status and Age

**Student(s)** Joseph Vatner **Grade** 12 **Town** Woodbridge

**Woodbridge** Amity Regional High School Lindsay McCarthy

3137 LS 1 In Vitro Assessment of Lactase Production Activity, Efficiency, and Survivability of *L. acidophilus* in Non-Dairy Carriers

**Student(s)** Mingze Weng **Grade** 12 **Town** Orange

**Woodbridge** Amity Regional High School Sarah Reeves

3145 LS 2 Using Mathematical Algorithms to Optimize the Efficiency of an Inverse Computational Modeling Approach to Uncover how Mutations are Affecting Cardiac Muscle Contraction

**Student(s)** Sage Wong **Grade** 12 **Town** Orange

**Woodbridge** Amity Regional High School Sarah Reeves

6077 PS 2 Assessing [OIII] Outflows and Feedback Efficiency in Nearby Type 1 Quasars

**Student(s)** Tony Zhang **Grade** 12 **Town** Woodbridge

**Woodbridge** CT-STEM Foundation Sarah Reeves

3171 LS 1 Investigating the Impact of Governance Effectiveness on Economic Crisis Resilience: A Fixed-Effects Analysis of G-20 Countries During the Great Recession and COVID-19

**Student(s)** David Babic **Grade** 10 **Town** Woodbridge

**Woodbridge** CT-STEM Foundation Lindsay McCarthy

6001 PS 3 Developing a Climate Finance Vulnerability Index for Connecticut to Identify Communities with High Climate Risk and Disproportionately Low Recovery Funding

**Student(s)** Jordan Chen **Grade** 11 **Town** Woodbridge

**Woodbridge** CT-STEM Foundation Lindsay McCarthy

6084 PS 3 Developing an Ambient-Light Lock-In UV Fluorescence Imaging System for Enhanced Forensic Evidence Detection

**Student(s)** Emma Imanov **Grade** 11 **Town** Orange

**Woodbridge** CT-STEM Foundation Christine Leventhal

3153 LS 1 Classification of Migraine Subtypes Using Machine Learning: A Study of Data Bias

**Student(s)** Kehara Morton **Grade** 12 **Town** Darien