



Connecticut Science & Engineering Fair

Quinnipiac University

March 3 - 15, 2025

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

Preliminary Judging Results

Honors Received in Regular Fair Preliminary Judging

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

Avon Avon High School Andrea Galuska

6088 PS 3 Harnessing the Power of the Wind: A Comparative Analysis on HAWT, Savonius and Darrieus Wind Turbines and Their Efficiency

Student(s) Nate Lee

Grade 10 **Town** Avon

Avon Avon High School Derek Aguiar

3517 LST 2 Using Machine Learning and Regression Models to Predict Atherosclerosis in Humans Considering Gene Expression, Sex, and Age as Factors

Student(s) Phydema Liu

Grade 11 **Town** Avon

Lauren Zhang

Grade 12 **Town** Darien

Avon Avon High School Galuska Andrea

3132 LS 1 Pathonix: Enhancing Ovarian Cancer Detection with an Explainable and Efficient Ensemble Learning Framework

Student(s) Vishnu Mukku

Grade 10 **Town** Avon

Avon Avon High School John Salerni

3004 LS 2 Generating peptide linked genetic constructs for mouse major histocompatibility complex I

Student(s) Saanika Tipnis

Grade 11 **Town** Avon

Avon Avon Old Farms School Jack Sanford

6007 PS 3 Methodical Research of Customized Deep Learning and Large Language Models Integrating Generative AI's Contextual Interfaces: A Case Study in Specialized Crime Detection

Student(s) Junbum Cho

Grade 11 **Town** Avon

Avon Avon Old Farms School Jack Sanford

3535 LST 1 Investigating Novel Adjuvant Therapies to Combat Tetracycline Efflux Pump Resistance in Escherichia Coli

Student(s) Jadon Subbu

Grade 12 **Town** Avon

Ahren Lehnhoff

Grade 11 **Town** Avon

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Avon Talcott Mountain Academy Hannah Marye

5508 P8 2 The impact of 3D-printed low-cost quadrupedal robots using swarm mechanics on highway litter cleaning services

Student(s) Kwabena Addai - Boateng **Grade 8** **Town** East Hartford

Avon Talcott Mountain Academy Kaitlyn Roberts

2503 L8 3 Can plants help mitigate the effect of Urban Heat Islands?

Student(s) Huntington Beckett **Grade 9** **Town** Hartford

Avon Talcott Mountain Academy Kenneth Wright

2010 L7 2 The Use of Short-form Media and its Correlation With Working Memory Functions in Adults.

Student(s) Konstantinos Raptis **Grade 7** **Town** West Hartford

Avon Talcott Mountain Academy Brigette Zacharczenko

2513 L8 2 Pupation Behaviors in Manduca sexta: Substrate Choices and Pupation Success

Student(s) Arya Samat **Grade 8** **Town** Avon

Bethany Amity Middle School Bethany Keith Smolinski

4024 PT 1 Novel Xylem Water Filter Spigot For Reusable, Universal 5-Gallon Water Jug

Student(s) Alexie Petrov **Grade 8** **Town** Woodbridge

Arshya Senajani **Grade 8** **Town** Woodbridge

Bethel Bethel High School Ray Turek

6011 PS 3 E.M.E.R.A.L.D. (Environmental Monitoring and Emission Reduction Assistant for Localized Decarbonization)

Student(s) Toshan Bhattacharya **Grade 10** **Town** Bethel

Bethel Bethel High School Raymond Turek

6045 PS 2 Evaluating the Effectiveness of Natural Antioxidants in Slowing Food Oxidation and Extending Shelf Life

Student(s) Katie Bui **Grade 12** **Town** Bethel

Bethel Bethel High School Turek Ray

6035 PS 3 Advancing Personalized Seizure Control: A Cutting-Edge Real-Time EEG Feedback System for Precision Adaptive Neurostimulation

Student(s) Srirama Desiraju **Grade 11** **Town** Bethel

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Bethel Bethel High School Raymond Turek
3135 LS 3 Using Computational Simulations of Antibodies To Target the Streptococcus anginosus Surface Protein TMPC to Mitigate Gastric Cancer.

Student(s) Aalif Hoque **Grade** 11 **Town** Bethel

Bethel Bethel High School Raymond Turek
3084 LS 1 Microplastic Influence on Microbial Strength Against Disinfection

Student(s) Shravya Mankala **Grade** 10 **Town** Bethel

Bethel Bethel High School Raymond Turek
3013 LS 3 Investigating the Effects of Temperature on DNA Extraction and Gel Electrophoresis from Blood Samples

Student(s) Katelyn Mould **Grade** 12 **Town** Bethel

Bethel Bethel High School Raymond Turek
3064 LS 2 Using Computer Modeling to Determine the Most Accurate and Predictive Trading Stocks Strategy for Market Direction in Terms of Profit

Student(s) Christina Nguyen **Grade** 12 **Town** Bethel

Bethel Bethel High School Raymond Turek
3062 LS 3 Impact of Material Processing on Mold Growth: A Microscopic Investigation of Mold Characteristics in Natural Versus Processed Material

Student(s) Valeria Sanango **Grade** 12 **Town** Bethel

Bethel Bethel High School Ray Turek
6055 PS 3 Using Electromagnets to Stabilize Hand Tremors

Student(s) Andrew Stowell **Grade** 11 **Town** Bethel

Bozrah Fields Memorial School Joshua Fish
4016 PT 1 A Study of the Impact of Slope, Materials, and Lubrication on Friction.

Student(s) Elise Kobelski **Grade** 8 **Town** bozrah

Hannah East **Grade** 8 **Town** Bozrah

Serena BunkerCai **Grade** 8 **Town** Bozrah

Bozrah Fields Memorial School Joshua Fish
4011 PT 3 What impact will different sphere and track variables have on the performance of a model roller coaster?

Student(s) Benjamin Savoie **Grade** 8 **Town** Gilman

Isaiah Negron-Rygielski **Grade** 8 **Town** Bozrah

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Bozrah Fields Memorial School Joshua fish

1025 LT 1 A study of the efficiency of ice melt substances and their environmental impact on roadside vegetation

Student(s) Analise Williams **Grade 7** **Town** bozrah

Ella Sikorski **Grade 7** **Town** Bozrah

Bridgeport Black Rock School Elizabeth Moran

2018 L7 1 Mouth Bacteria Experiment

Student(s) JohnJairo Arriaza **Grade 7** **Town** Bridgeport

Bridgeport Black Rock School Elizabeth Moran

5016 P7 3 Note Taking App

Student(s) Halle Clark **Grade 7** **Town** Bridgeport

Bridgeport Bridgeport Military Academy Arun Kadam

6525 PST 2 Exploring Airfoil Shapes and Generating Lift

Student(s) Gerson Andino **Grade 11** **Town** Bridgeport

Bryan Reis **Grade 11** **Town** Bridgeport

Bridgeport Bridgeport Regional Aquaculture Center Kirk Shadle

6018 PS 2 Determining the Most Effective Catalyst for Pyrolysis of HDPE by Comparing Zeolite ZSM-5 to AlCl₃-NaCl

Student(s) William Bentley **Grade 12** **Town** Fairfield

Bridgeport Bridgeport Regional Aquaculture Center Kirk Shadle

6027 PS 2 The Novel Application of Arbuscular Mycorrhizae to Improve the Vitality of Glycine max in Martian Regolith

Student(s) Owen Dueck **Grade 12** **Town** Trumbull

Bridgeport Bridgeport Regional Aquaculture Center Kirk Shadle

3066 LS 2 Measuring the effect of Hyperglycemia on age through C.elegans GFP levels

Student(s) Paige Ferguson **Grade 12** **Town** Trumbull

Bridgeport Bridgeport Regional Aquaculture Center Kirk Shadle

6043 PS 3 Using Swarm Artificial Intelligence to Generate Artificial Human Genomes

Student(s) Alexander Haniph **Grade 12** **Town** Trumbull

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Bridgeport Bridgeport Regional Aquaculture Center Kirk Shadle

6062 PS 2 Enhancing Modern Artificial Ligaments Through the Integration of Byssal Threads Found in Mussels

Student(s) Shane John

Grade 12 Town TRUMBULL

Bridgeport Bridgeport Regional Aquaculture Center Kirk Shadle

6091 PS 2 Measuring the Capacity of Mucilage to filter harmful compounds out of water.

Student(s) Guy Julavits

Grade 12 Town Fairfield

Bridgeport Bridgeport Regional Aquaculture Center Kirk Shadle

3079 LS 2 Allyl Isothiocyanate as a Prophylaxis treatment to Listeria

Student(s) Luke Kieffer

Grade 12 Town Fairfield

Bridgeport Bridgeport Regional Aquaculture Center Kirk Shadle

3126 LS 3 The Impact of Combined Bromelain and Papain Hydrogel on Wound Healing Processes Relative to Enhanced Enzyme Extraction Techniques.

Student(s) Olivia LaRicca

Grade 12 Town Fairfield

Bridgeport Bridgeport Regional Aquaculture Center Kirk Shadle

3061 LS 2 The Determination of Effects due to Anthropogenic Noise Pollution in the Range of Zero to Five Hundred Hertz on the Growth and Vitality of Rhodactis inchoata.

Student(s) Andrew Moore

Grade 12 Town Shelton

Bridgeport Bridgeport Regional Aquaculture Center Kirk Shadle

3020 LS 2 A novel structure for improving nematocysts' ability to deliver medication into the bloodstream

Student(s) Charlotte Talbot

Grade 12 Town Fairfield

Bridgeport Bridgeport Regional Aquaculture Center Kirk Shadle

6050 PS 2 Efficiency research of Cellulose Electrospinning and Exploration of Cellulose Nanofiber Applications

Student(s) Gabriel Vahey

Grade 12 Town Fairfield

Bridgeport Fairchild Wheeler-Biotech Tara Liskov

3125 LS 1 The Effect of Natural Root Stimulators on Plant Height and Root Growth

Student(s) Ite Daini

Grade 12 Town Bridgeport

Bridgeport Fairchild Wheeler-Biotech Cynthia Crudale

3156 LS 2 Comparison of UV Filtering of Sunscreen Compared to Foundation

Student(s) Tiffany Santos

Grade 10 Town Bridgeport

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Bridgeport	Fairchild Wheeler-Biotech	Tara Liskov	6072	PS	3	Energy Production from a Homemade Hydrogen Cell	Student(s) Wyatt Speight	Grade 12	Town Fairfield
Bridgeport	Fairchild Wheeler-Infotech	Jamie Dittrich	3157	LS	3	Simulating Memory Loss: A Study of the Hippocampus	Student(s) Paola Almazan	Grade 9	Town Trumbull
Bridgeport	Fairchild Wheeler-Infotech	Ricki Chiem	6518	PST	2	The Benefits of Designing Base Isolators for Earthquake Proof Structures	Student(s) Ayden Gamble	Grade 10	Town Bridgeport
							Eddie Bermudez	Grade 11	Town Bridgeport
Bridgeport	Fairchild Wheeler-Infotech	Jamie Dittrich	3150	LS	2	Building an AI to Identify Skin Conditions	Student(s) Mikayla Larbi	Grade 9	Town Bridgeport
Bridgeport	Fairchild Wheeler-Infotech	Jamie Dittrich	6512	PST	3	Jeffery - Your Friendly Robotic Assistant	Student(s) Jackson Peplau	Grade 9	Town Bridgeport
							Aiden Klein	Grade 9	Town Stratford
							Noah Garson	Grade 9	Town Stratford
Bridgeport	Fairchild Wheeler-Infotech	Ricki Chiem	6524	PST	3	Analyzing the Efficiency of Hydro-Electric Power	Student(s) Ryan Salthouse	Grade 10	Town stratford
							Keller Passaro	Grade 11	Town stratford
Bridgeport	Fairchild Wheeler-Infotech	Ricki Chiem	6110	PS	3	Comparing 3D Rendering Software	Student(s) Kayla Spodnik	Grade 11	Town Bridgeport
Bridgeport	Geraldine Johnson	Kelly Mulligan Mulligan	2523	L8	3	Seeing the Unseen: Smart Glasses that Brings Sight to the Blind	Student(s) Mariam Yousf	Grade 8	Town Bridgeport

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Bridgeport	John Winthrop School	Srilakshmi Kongani	4005	PT	1	Don't Quake, Choose the Right Shape!	Student(s)	Kyleen Negron	Grade 8	Town	Bridgeport
								Leah Brioso	Grade 8	Town	Bridgeport
Bridgeport	Theodore Roosevelt School	Sherita Paul	5522	P8	3	The Strength of Bridges	Student(s)	Edmond Deshotel	Grade 8	Town	Bridgeport
Bristol	St. Matthew School	Danielle Persichetti	5514	P8	2	Hot or Cold? How Temperature Affects the Bounce of a Ball	Student(s)	Lily Chou	Grade 8	Town	Bristol
Bristol	St. Matthew School	Danielle Persichetti	5509	P8	2	Shake It To Make It	Student(s)	Lauren Gillis	Grade 8	Town	Bristol
Bristol	St. Matthew School	Danielle Persichetti	5524	P8	2	Does the shape of ice affect melting time?	Student(s)	Jakob Sward	Grade 8	Town	Bristol
Cheshire	Cheshire Academy	Breanna Craft	6013	PS	2	A Tracking System.	Student(s)	Deanna Dixon	Grade 11	Town	Cheshire
Cheshire	Cheshire Academy	Breanna Craft	3014	LS	3	Impact of Ocean Acidification on Microalgae Growth: A Predictive Model Using Logistic Mapping and Mandelbrot Sets to Understand Ecosystem Stability Under Climate Change.	Student(s)	Jaeyun Park	Grade 11	Town	Cheshire
Cheshire	Cheshire High School	Julie Barker	3148	LS	3	Determining whether using store-bought fertilizer or homemade compost fertilizer is a better option for growing houseplants by testing both on Radermachera Sinica Plants.	Student(s)	Wendy Cai	Grade 11	Town	Cheshire
Cheshire	Cheshire High School	Julie Barker	6064	PS	2	Chemical Clues: Predicting Cytochrome P-450 Inhibitors	Student(s)	Adwitha Gadhachanda	Grade 11	Town	Cheshire

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Cheshire	Cheshire High School	Julie Barker	6058	PS	1	The Design and Development of a Smart and Effective Multi-Device Airline Seatbelt Alert System for Preventing Turbulence-Related Injuries Using IoT Technology	Suchita Srinivasan	11	Cheshire
Cheshire	St. Bridget School	Michelle Caroll	5517	P8	3	Silencing the noise	Eli Horning	8	Cheshire
Cheshire	St. Bridget School	Michelle Carroll	5003	P7	1	Acids and Rates of Corrosion: Experiments of Acid Rain on Building Materials	Benedict Machado	7	Hamden
Danbury	Immaculate High School	Nadia Perez	3520	LST	2	Picrasin B Suppressed the Progression of Alzheimer's Disease by Regulating Cystatin F-related Pathway	Tianyi Dong Siwei Han	11 11	Patterson Sandy Hook
Danbury	Saint Gregory the Great School	Christine Fahey	2012	L7	1	1 Pollutant: 4 Filtering Methods	Dheer Bhavsar	7	Danbury
Danbury	Saint Gregory the Great School	Christiane Fahey	2006	L7	3	Model How Environment and Genetics Change the Chances of Getting Cancer	Mia Kotau	7	Danbury
Danbury	Saint Gregory the Great School	Christine Fahey	5518	P8	3	The Most Efficient Way to Solve a Rubik's Cube	Leonardo Lazzara	8	Brookfield
Danbury	Saint Gregory the Great School	Christine Fahey	1003	LT	3	Fertilizer vs Compost	Lucia Molisani Gemma Molisani	7 7	Redding Redding

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Danbury	Saint Gregory the Great School	Christine Fahey	2001	L7	1	Would You Like Plastic With That?	Student(s)	Rahil Shah	Grade 7 Town Danbury
Danbury	Saint Joseph School	Kathleen Spina	2520	L8	1	Crossed Up!	Student(s)	Brayden Crabbe	Grade 8 Town Danbury
Danbury	Saint Joseph School	Kathleen Spina	2003	L7	3	Flower Lifespan	Student(s)	Adrian De Leon	Grade 7 Town Danbury
Danbury	Saint Joseph School	Kathleen Spina	2508	L8	2	Music's Impact on Memory	Student(s)	Brooklyn Lounsbury	Grade 8 Town DANBURY
Danbury	Saint Joseph School	Kathleen Spina	2512	L8	3	The Energy From Above	Student(s)	Jaden Scott	Grade 8 Town Danbury
Danbury	Westside Middle School Academy	Nancy Barlow	5528	P8	2	The Benefit of A Coded Device To Water Plants Automatically	Student(s)	Mackenzie Cooper	Grade 8 Town Danbury
Danbury	Westside Middle School Academy	Nancy Barlow	4002	PT	2	Increasing The Flight Distance of The Football by Changing its Characteristics	Student(s)	Brennen Denema	Grade 8 Town Danbury
								Sean Kennedy	Grade 8 Town Danbury
								Mathias Sanchez	Grade 8 Town Danbury
Danbury	Westside Middle School Academy	Nancy Barlow	4018	PT	3	The Effect of Delta Wing Dimentions on Flight Distance	Student(s)	Peyton Hannan	Grade 8 Town Danbury
								Jay Nanyame	Grade 8 Town Danbury

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Danbury Westside Middle School Academy Nancy Barlow

1028	LT	2	How does the amount of glycerin effect the flexure, torsion, and tensile strength of sustainable seaweed fabric?
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Student(s)	Charlotte Hayden	Grade 7	Town Danbury
	Emily Buck	Grade 7	Town Danbury

Danbury Westside Middle School Academy Nancy Barlow

4023	PT	3	How Do Different RC Spoiler Shapes Affect Battery Discharge?
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Student(s)	Sean O'Marra	Grade 7	Town Danbury
	Alius Santiago-Stra	Grade 7	Town Danbury

Danbury Westside Middle School Academy Nancy Barlow

4028	PT	1	The Effect of Different Salts in a Water Softener on Calcium in Drinking Water
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Student(s)	Siddanth Ramakrishnan	Grade 8	Town Danbury
	Patrick Madden	Grade 8	Town Danbury
	Thomas Smith	Grade 8	Town Danbury

Danbury Westside Middle School Academy Nancy Barlow

1005	LT	2	Does heating or cooling a fruit/vegetable lower the amount of Brix?
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Student(s)	Mohammad Rehan	Grade 7	Town Danbury
	Gowtham Vallinayagam	Grade 7	Town Danbury

Danbury Westside Middle School Academy Nancy Barlow

4012	PT	2	How does the Type and Brand of a Battery Affect how Much Voltage it Loses Over Time?
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Student(s)	Logan Schneider	Grade 7	Town Danbury
	Daniel Sposato	Grade 7	Town Danbury

Danbury Westside Middle School Academy Nancy Barlow

1022	LT	2	How Does the Type of Food Affect Garden Snail Activity?
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Student(s)	Montana Urban	Grade 8	Town Danbury
	Sarah Gaudenzi	Grade 8	Town Danbury

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Danbury Westside Middle School Academy Nancy Barlow

4007	PT	3	The Effects of Different Amounts of Phosphorus on the Growth of Algae Beads
Student(s) Jazlyn Walia			Grade 8 Town Danbury
Maria Eduarda Silva			Grade 8 Town Danbury
Isis Brito Do Carmo			Grade 8 Town Danbury

Danbury Wooster School Parvin Taraz

6077	PS	2	CTRQNETS & LQNETS: Continuous Time Recurrent and Liquid Quantum Neural Networks
Student(s) Alejandro Mayorga			Grade 10 Town Danbury

Darien Darien High School Zorica Buser

3054	LS	3	Surgical Approaches for the Treatment of Cervical Spondylolisthesis: Current Evidence on Complications and Patient Outcomes
Student(s) Alexia Buchesky			Grade 12 Town Darien

Darien Darien High School David Lewis

6054	PS	3	The Detection of Circumstellar Debris Disks in Stellar Environments of 3 Habitable Small or Low-Mass Planet Candidates
Student(s) Julian Du			Grade 10 Town Darien

Darien Darien High School Guy Pratt

3023	LS	2	Age-Related Serotonin Degradation and Alzheimer's Disease Pathology
Student(s) Riley Keating			Grade 12 Town Darien

Darien Darien High School David Lewis

3131	LS	1	Association Between Food Insecurity and Mortality Outcomes Among Cancer Survivors in the United States
Student(s) Lily Keehlwetter			Grade 12 Town Darien

Darien Darien High School David Lewis

3109	LS	2	A novel method to assess Rho GTPase activity
Student(s) Maria Kholmanskikh			Grade 12 Town Darien

Darien Darien High School David Lewis

6026	PS	3	Analyzing GW170817-like Events and Effects on The Uncertainty of Hubble's Constant
Student(s) Adrian Matyszkowicz			Grade 12 Town Darien

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Darien	Darien High School	Guy Pratt	3015	LS	2	Correlation Between Depth and Transplantation Success Among 3 Coral Species	Student(s) Emma Meyers	Grade 12	Town Darien
Darien	Darien High School	David Lewis	3090	LS	1	SLE B cells have an increase in interferon alpha/beta signaling compared to DLE B cells	Student(s) James Smith	Grade 12	Town Darien
Darien	Darien High School	Christine Leventhal	6030	PS	3	Confirming TESS exoplanet candidates and searching for multi-planetary systems using transit photometry and timing variations	Student(s) Allison Valji	Grade 12	Town Darien
Darien	Darien High School	Guy Pratt	3139	LS	2	Host Immune Response Post-QUAD Molecularly Targeted Treatment Promotes Tumor Regression in Dogs with Naturally Occurring Glioblastoma	Student(s) Samantha Veeder	Grade 12	Town Darien
East Lyme	East Lyme High School	Frederic Clark	3059	LS	2	SleepWatcher	Student(s) Sashrika Das	Grade 9	Town East Lyme
East Lyme	East Lyme High School	Frederick Clark	6056	PS	3	Time to Think in Ternary?	Student(s) Meera Rangwala	Grade 9	Town East Lyme
Enfield	Academy of Computer Science & Engineering	Melissa Gates	6005	PS	3	Does solar wind impact the production of northern lights?	Student(s) Mickiyah Smith	Grade 9	Town Manchester
Enfield	Academy of Computer Science & Engineering	Melissa Gates	3085	LS	2	Hydroponic Horizons: How Different Nutrient Solutions Affect Plant Growth	Student(s) Cassandra Stewart	Grade 9	Town Plantsville
Enfield	Chiaravalle Academy	Tim Coleman	1007	LT	2	Testing different fertilizers in bucket hydroponics.	Student(s) Andrew Banker Ben Lewis	Grade 8 Grade 8	Town Willbraham Town Enfield

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Enfield	Chiaravalle Academy	Tim Coleman	1021	LT	3	The ideal growing conditions for oyster mushrooms Pleurotus Ostreatus growth			
						Student(s) Sofia Cardenales-Flamand	Grade 7	Town Springfield	
						Katherine Donnelly	Grade 7	Town Suffield	
						Evelyn Bohonowicz	Grade 7	Town Somers	
Enfield	Chiaravalle Academy	Tim Coleman	4003	PT	2	Evaluating the Effectiveness of Rainwater Filtration			
						Student(s) Leah Caswell	Grade 8	Town Enfield	
						Marin Czerwiec	Grade 8	Town Agawam	
						Arianna Plaz	Grade 8	Town Suffield	
Enfield	Chiaravalle Academy	Tim Coleman	4014	PT	2	Measuring Radiation in Household Appliances and Investigating Shielding Techniques			
						Student(s) Dominic Disibio	Grade 7	Town Tolland	
						Matthew Bielanski	Grade 7	Town Enfield	
						Cayden Counter	Grade 7	Town Springfield	
Enfield	Chiaravalle Academy	Timothy Coleman	1002	LT	2	Does a vegetarian diet affect blood pressure?			
						Student(s) Waverly Goodman	Grade 8	Town Suffield	
						Lia Vidal	Grade 8	Town Enfield	
Enfield	Chiaravalle Academy	Tim Coleman	1027	LT	3	How does different growing conditions affect the growth of grass.			
						Student(s) Grant Kelly	Grade 8	Town Enfield	
						Caden Young	Grade 8	Town Suffield	
Enfield	Chiaravalle Academy	Tim Coleman	1012	LT	2	Whats the best hydroponic soil?			
						Student(s) Makenzie Pappas	Grade 7	Town Enfield	
						Lily Szwed	Grade 7	Town Longmeadow	
						Jake Swanson	Grade 7	Town West Springfield	

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Enfield	Chiaravalle Academy	Tim Coleman	4008	PT	2	1 Step Towards a Greener World	Student(s)	Megan Quinby	Grade 8 Town Windsor
								Nathaniel Kelly	Grade 8 Town Longmeadow
Enfield	Chiaravalle Academy	Timothy Coleman	1017	LT	2	Does coffee work as a natural fertilizer ?	Student(s)	Ila Roy-mahmood	Grade 7 Town Enfield
								hanah Lewis	Grade 7 Town enfeild
								Emma Lizon	Grade 7 Town Springfield
Enfield	Chiaravalle Academy	Tim Coleman	4019	PT	3	Operating A Hydroponic System Using Rainwater	Student(s)	Zoha Shamsi	Grade 8 Town Suffield
								Antonina Borodii	Grade 8 Town Enfield
Fairfield	Fairfield Warde	Ryan Gleason	3536	LST	2	The affect of invasive English Ivy on native Wild Ginger plants	Student(s)	Calista Gleason	Grade 10 Town Fairfield
								Emma Speicher	Grade 10 Town Fairfield
Fairfield	Fairfield Woods Middle School	Michael Sgoutas	4004	PT	2	CO2 Emissions Bio-Filtration System	Student(s)	Alexander Majewski	Grade 8 Town Fairfield
								Parshwa Shah	Grade 8 Town Fairfield
Farmington	Farmington High School	Alexandra Raymunt	3024	LS	3	Environmental stressors' impacting the efficacy of natural antibiotics.	Student(s)	Rajanya Bishi	Grade 9 Town Farmington
Farmington	Farmington High School	Alexandra Raymunt	3505	LST	2	Early Detection of Glioblastoma Multiforme Through Deep-Learning Biocomputational Models of Blood Proteomic and Single Cell Profiles	Student(s)	Vedant Kansara	Grade 11 Town Unionville
								Nithin Solomon	Grade 11 Town Unionville

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Farmington Farmington High School Alexandra Raymunt

6075 PS 3 Soil Nutrient Tester with Rotating Strip Holder for Multi-Day Analysis

Student(s) Jiayi Liu **Grade** 12 **Town** Farmington

Farmington Farmington High School Alexandra Raymunt

3076 LS 2 The Effectiveness of America's Greatest Stimulant

Student(s) Kashvi Madhwani **Grade** 12 **Town** Farmington

Farmington Miss Porter's School Christine Scanlon

3527 LST 2 Greener Alternatives: Assessing Bioplastics Environmental Impact and Practical Use

Student(s) Mahanur Ahmed-Islam **Grade** 9 **Town** Avon
Lindsay Lin **Grade** 9 **Town** Farmington

Farmington Miss Porter's School Christine Scanlon

6103 PS 2 Development of a Gravitational Lensing Model: The Effect of Lens Position and Orientation on Image Distortion

Student(s) Claire Lee **Grade** 10 **Town** FARMINGTON

Farmington Miss Porter's School Christine Scanlon

3100 LS 2 Cellular and Molecular Biomarkers to Predict Immunotherapy Outcomes in Melanoma Patients

Student(s) Tingjia Shi **Grade** 11 **Town** Wuxi

Greenwich Brunswick School Dana Montanez

3513 LST 3 Protecting Turtle Grass Ecosystems: An investigation of the Anthropogenic Impact on Statocytes and Subsequent Anchorage

Student(s) Townsend Bancroft JR **Grade** 11 **Town** Greenwich
William Pallone **Grade** 11 **Town** Rye

Greenwich Brunswick School Dana Montañez

3524 LST 2 Development of an Organic Powder to Rapidly Increase Nutrients in Degraded Soil

Student(s) Owen Bartoszek **Grade** 10 **Town** Greenwich
Aidan Williams **Grade** 10 **Town** Greenwich

Greenwich Brunswick School Dana Montanez

3034 LS 3 Nanoparticle encapsulation of Naloxone to Improve Potency and Longevity of the Opioid Antagonist

Student(s) Neel Behringer **Grade** 11 **Town** Greenwich

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Greenwich	Brunswick School	Dana Montanez	3528	LST	3	Isolation of Regenerative Proteins in Echinoderms: A comparative analysis of amino acids sequences in Asterina sp. and P. miniata	Student(s)	Thomas Carney	Grade 11 Town New Canaan
								Pierce Crosby	Grade 11 Town Greenwich
Greenwich	Brunswick School	Dana Montanez	3501	LST	1	Optimization of Aptamer AS141: An Effort to Increase Binding Efficiency to Nucleolin, an Overexpressed Protein on Cancer Cells.	Student(s)	Jackson Cunningham	Grade 11 Town Greenwich
								Henry Mayerfield	Grade 11 Town Scarsdale
Greenwich	Brunswick School	Dana Montanez	6502	PST	1	Novel use of Beeswax as an Sustainable Medium to Improve the Efficiency and Scalability of Super-Hydrophobic Sponges in Cleaning up Oceanic Oil Spills	Student(s)	George Kapp	Grade 11 Town Greenwich
								Max Lanson	Grade 11 Town New Canaan
Greenwich	Brunswick School	Dana Montanez	6015	PS	2	An Investigation into the effects of propeller geometry and surface composition on cavitation rates and decibel transmittance.	Student(s)	Nikolai Krause	Grade 11 Town Greenwich
Greenwich	Brunswick School	Dana Montanez	6073	PS	3	Increasing Chlorophyll Production in Prochlorococcus via synchronous culturing with Trichodesmium: An effort to increase Photosynthetic Rate.	Student(s)	Shep McGovern	Grade 10 Town Greenwich
Greenwich	Brunswick School	Dana Montanez	3537	LST	1	The Damage of UV repellants and absorbents on Microfauna Found in and around Coral Reef Ecosystems	Student(s)	Jayden Montanez	Grade 10 Town Greenwich
								Callum Holl	Grade 10 Town Old Greenwich
Greenwich	Brunswick School	Dana Montanez	6508	PST	1	Utilizing Electrodeposition for Marine Coastline Protection: A Sustainable Solution to Combat Erosion	Student(s)	Lincoln O'Donohue	Grade 11 Town Old Greenwich
								Sean Mensi	Grade 11 Town Katonah

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Greenwich	Brunswick School	Dana Montanez	3507	LST	1	Creation of a Long-term, Biodegradable, Alkaline cube to locally offset the effects of ocean acidification in reef ecosystems.	Tyrus Ostrowski Nathaniel O'Connor	10 10	Port Chester Chappaqua
Greenwich	Brunswick School	Dana Montañez	3518	LST	1	Identification and Isolation of the Disease-inhibiting Protein SCGB1D2 in Ungulates	Chris Pedlow Gabe Levy	10 10	Cos Cob Greenwich
Greenwich	Brunswick School	Dana Montanez	3154	LS	3	Developing a Gender Identification Presumptive Test for Non-Dimorphic Osteichthyes	Sawyer Sacks	10	Greenwich
Greenwich	Brunswick School	Dana Montanez	3117	LS	3	Sleep to Succes: How Sleep Impacts Student Acedemic Performance	Harry Saunders	10	greenwich
Greenwich	Brunswick School	Dana Montanez	3532	LST	3	Discovery of an Inhibitor for the Fra a1 Allergen in an effort to Reduce/Prevent Allergic Reactions to Strawberries	Peter Saunders Jack Wendell	10 10	Greenwich Greenwich
Greenwich	Central Middle School	Andrew Bramante	2505	L8	1	Development of a Thyme Oil-in-Hydromed Wearable Anklet for the Natural, Effective Repellant of Ticks	Clara Cahill	8	Greenwich
Greenwich	Central Middle School	Andrew Bramante	5513	P8	1	Neutralization of Ocean Acidification, and Promotion of Additional Atmospheric CO 2 Sequestration, via a Melamine-PTFE-Mg(OH) 2 Floatable Sponge	Tian-yi Chen	8	Greenwich

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Greenwich Central Middle School Andrew Bramante

5504 P8 1 Highlighting the Prevalence of Microplastics at Tod's Point Through Waste Water and Ocean Currents Using Scanning Electron Microscopy Analysis

Student(s) Carter Henske **Grade 8** **Town** Greenwich

Greenwich Eastern Middle School Andrew Bramante

2516 L8 2 Investigating the Effects of Natural Remedies on Pine Pollen Antigen Levels to Combat Allergies

Student(s) William Chen **Grade 8** **Town** Greenwich

Greenwich Eastern Middle School Andrew Bramante

2506 L8 1 Fabrication of a Biodegradable, Nutrient-Rich, Orange Peel-Loaded Hydrogel for Thermally-Programmed Release of Water to Maintain Soil Moisture

Student(s) Rajsi Choudhary **Grade 8** **Town** Greenwich

Greenwich Eastern Middle School Andrew Bramante

2501 L8 2 Identification of the Optimal Wastewater Algae for Production of Degradable Bioplastics from PHB

Student(s) Leo Foell **Grade 8** **Town** Greenwich

Greenwich Eastern Middle School Andrew Bramante

2511 L8 3 Inhibition of Skin Acne Using a Topical, Lactiplantibacillus plantarum Probiotic Treatment

Student(s) Michael Gitelman **Grade 8** **Town** Old Greenwich

Greenwich Eastern Middle School Andrew Bramante

5501 P8 1 Evaluating the Toxicity of Eco-Friendly versus Conventional Laundry Detergent Water Runoff via Analysis of Eisenia Fetida Mortality Rates

Student(s) Zain Haque **Grade 8** **Town** Riverside

Greenwich Eastern Middle School Andrew Bramante

5511 P8 1 Field and Lawn Run-off Removal of Nitrates and Phosphates via an Iron & Calcium Fortified Biochar

Student(s) Ellie Mao **Grade 8** **Town** Riverside

Greenwich Eastern Middle School Andrew Bramante

2521 L8 1 Unraveling Weather-Pollen Interactions: Machine Learning for Allergy Forecasting

Student(s) Siddharth Nimmagadda **Grade 8** **Town** Greenwich

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Greenwich Greenwich Academy Katie Hertzmark

1001	LT	1	Microplastics in Oysters
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Student(s)	Addison Garner	Grade 7	Town Greenwich
	Arabella Miller	Grade 7	Town Greenwich

Greenwich Greenwich Academy Karin Shetty

3077	LS	2	A Novel Treatment for Gut Epithelial Barrier Preservation via Sulforaphane Derived from Broccoli Seeds to Reduce Opioid Tolerance
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Student(s)	Sara Rahimtula	Grade 10	Town Old Greenwich
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Greenwich Greenwich Catholic School Timothy Koppe

4021	PT	3	Jell-o Lotion Lab
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Student(s)	Natalie Baldwin	Grade 7	Town Shippan
	Gianna Connole	Grade 7	Town Stamford
	Sofia Gorog	Grade 7	Town Greenwich

Greenwich Greenwich Catholic School Timothy Koppe

4015	PT	2	MedAssist (Smart medicine storage)
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Student(s)	Artem Perekhodko	Grade 7	Town stamford
	Jose Miguel Bowles	Grade 7	Town Greenwich
	Ben Ballester	Grade 7	Town Stamford

Greenwich Greenwich Country Day School Nathan Haag

6038	PS	2	The Role of Specialization in Overuse Injuries (OUI): An Examination of Athletes' Performance
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Student(s)	Lila Braddock	Grade 11	Town Old Greenwich
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Greenwich Greenwich Country Day School Nathan Haag

3058	LS	3	The Life Stages of Perkinsus Marinus: ending the mystery behind the disease.
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Student(s)	Callie Crain	Grade 12	Town Greenwich
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Greenwich Greenwich Country Day School Nathan Haag

6019	PS	3	The Compressive Strength and Insulative Qualities of Different Fungal Species within Mycelium-Based Materials
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Student(s)	Mika Dunne	Grade 12	Town Cos Cob
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Greenwich Greenwich Country Day School Nathan Haag

3092 LS 2 Examining the Effects of Interactive Learning on 2nd Grade Students' Academic Engagement and Retention

Student(s) Abigail Greenblatt

Grade 12 Town Mamaroneck

Greenwich Greenwich Country Day School Nathan Haag

3133 LS 3 The Effects of Nicotine and Caffeine Consumption on the Fertility and Fetal Development of Lysmata Wurdemanni

Student(s) Natalie Hornblower

Grade 12 Town New York

Greenwich Greenwich Country Day School Nathan Haag

3142 LS 3 Effects of Penicillin, Ampicillin, Tetracycline, Temperature, and Antibiotic Concentration on Escherichia coli

Student(s) Chiara Junqueira de Andrade

Grade 11 Town Stamford

Greenwich Greenwich Country Day School Nathan Haag

3097 LS 3 The Influence of Sleep Duration on Memory and Emotional Well-Being in Teenagers: A Confirmational Study

Student(s) Sarah Lukes

Grade 11 Town Rye

Greenwich Greenwich Country Day School Nathan Haag

3127 LS 3 Investigating the differences in strike pattern and cadence between barefoot and traditional shoe running

Student(s) Joshua Lunder

Grade 12 Town Greenwich

Greenwich Greenwich Country Day School Nathan Haag

3102 LS 3 AI in High School Writing: Evaluating Its Role in Enhancing Conceptualization and Writing Quality

Student(s) Charlie Moloney

Grade 11 Town Rye

Greenwich Greenwich Country Day School Nathan Haag

6074 PS 2 Exploring Antibiotic Effects on Wolbachia-Based Mosquito-Borne Disease Control

Student(s) Elizabeth Muir

Grade 11 Town Greenwich

Greenwich Greenwich Country Day School Nathan Haag

6025 PS 2 Effects of Increased Temperature and Acidification on Moon Jellyfish (Aurelia Aurita) Reproduction Rates

Student(s) Reid Rodgers

Grade 12 Town Greenwich

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Greenwich Greenwich Country Day School Nathan Haag

6083 PS 2 Comparing the activity of FAST-PETase and Dura-PETase at ambient temperatures

Student(s) Linnea Shah-Gustafsson **Grade** 11 **Town** Putnam Valley

Greenwich Greenwich Country Day School Nathan Haag

6004 PS 2 Aquaponics and Sustainable Fish Feed: A Comparative Analysis of Tilapia and Bibb Lettuce Growth with Animal, Insect, and Plant-Based Feeds

Student(s) Ben Shefter **Grade** 12 **Town** Greenwich

Greenwich Greenwich Country Day School Nathan Haag

6108 PS 2 Effectiveness of a Smart Traffic Light Utilizing IoT Technologies for High School Campuses

Student(s) Christian Suy Pineda **Grade** 11 **Town** Stamford

Greenwich Greenwich Country Day School Nathan Haag

6099 PS 1 Optimizing Vertical Take-Off and Landing (VTOL) Aircraft Efficiency Through Propeller Design: Making Air Flight More Accessible, Affordable, and Sustainable

Student(s) Cooper Taylor **Grade** 11 **Town** Greenwich

Greenwich Greenwich Country Day School Nathan Haag

3053 LS 3 The Effect of Carbon Dioxide on Cognitive Function

Student(s) Eli Thurer **Grade** 11 **Town** Rye

Greenwich Greenwich High School Andrew Bramante

6097 PS 1 Development of Hybrid Servo-Pneumatic Lower-Body Exoskeleton for use as a Mobility Assistance Device

Student(s) Isaac Bell **Grade** 11 **Town** Riverside

Greenwich Greenwich High School Andrew Bramante

3017 LS 2 Neural Network Interpretation of EEG Scans for Accurate Diagnosis of Asymptomatic Concussions

Student(s) Isha Bharti **Grade** 9 **Town** Riverside

Greenwich Greenwich High School Andrew Bramante

3152 LS 2 Real-Time Diagnosis and Alert of Computer Vision Syndrome, to Promote Healthy Screen-Time Habits

Student(s) Arnav Bhatia **Grade** 10 **Town** Old Greenwich

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Greenwich Greenwich High School Andrew Bramante

3006 LS 1 Targeted Delivery of a Melittin Anti-inflammatory Peptide via a Eudragit-Coated Sporopollenin Exine Capsule, for Effective Treatment of Crohn's Disease

Student(s) Hannah Dcruz **Grade** 10 **Town** Greenwich

Greenwich Greenwich High School Andrew Bramante

6081 PS 3 Prediction of Low-Pressure Metallization of Metal Hydrides by Ab Initio Simulation

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

Greenwich Greenwich High School Andrew Bramante

3101 LS 1 Restoration of Sleep Cycle and Activity Interruption of Alzheimer's Rivastigmine Treatment with the Addition of Labetalol

Student(s) Rachel Goldenberg **Grade** 10 **Town** Old Greenwich

Greenwich Greenwich High School Andrew Bramante

6020 PS 2 Facilitated Ethylene Absorption and Freshness Preservation via All-Natural Sodium Chloride and

Student(s) Nishant Jain **Grade** 10 **Town** Riverside

Greenwich Greenwich High School Andrew Bramante

6051 PS 2 Development of a Novel Deep Reinforcement Learning Algorithm for Decentralized Real-Time Control of Autonomous Drones with Hardware-Independent Compatibility

Student(s) Henry Jin **Grade** 11 **Town** Greenwich

Greenwich Greenwich High School Andrew Bramante

3021 LS 2 Generating Novel Protein Sequences with Specialized Functions using LoRA-Finetuning

Student(s) Raymond Li **Grade** 10 **Town** Riverside

Greenwich Greenwich High School Andrew Bramante

6041 PS 2 Design of a Biometric Trap for Spotted Lanternflies, Using Scent-Profiles of Ailanthus altissima

Student(s) Rex Lu **Grade** 11 **Town** Greenwich

Greenwich Greenwich High School Andrew Bramante

3083 LS 1 Fabrication of an Antibiotic Gelatin Hydrogel Delivery Mechanism for Atopic or Injectable Release of mRNA Vaccines

Student(s) Neil Pendkar **Grade** 10 **Town** Old Greenwich

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Greenwich Greenwich High School Andrew Bramante
6009 PS 2 Consideration of Location-specific Weather and Topographic Datasets to Model Efficient Deployment of Forest Fire Flame Retardants
Student(s) Iri Pulepu **Grade** 9 **Town** Old Greenwich

Greenwich Greenwich High School Andrew Bramante
6063 PS 2 Comparative Growth Analysis of Mycelium in Standard vs. Orange Peel-Enriched Substrates for Production of a Biodegradable Foam as a Polystyrene Substitute
Student(s) Colin Reynolds **Grade** 11 **Town** Old Greenwich

Greenwich Greenwich High School Andrew Bramante
3146 LS 1 Leveraging of Neural Network Design to Create High-Accuracy, Low-Latency Detection of Real-time
Student(s) Ryan Wadhwa **Grade** 11 **Town** Riverside

Greenwich Greenwich High School Andrew Bramante
3129 LS 1 Lipid-Based Codelivery of Doxorubicin and siRNA PD-L1, as a Multi-function Chemo-immunotherapy, Selective to PDAC via its MUC1 Overexpression
Student(s) Lula Wang **Grade** 10 **Town** Old Greenwich

Greenwich Greenwich High School Andrew Bramante
6087 PS 2 Extraction of Cellulose Nanocrystals via Sulfuric Acid Hydrolysis from Post-Consumer Cotton-Elastane Textile Blends with Elastane Recovery
Student(s) Marley Wies **Grade** 11 **Town** Old Greenwich

Greenwich Greenwich High School Andrew Bramante
3011 LS 1 A Novel Multi-Modal ML Approach for Early Detection of Alzheimer's Disease Using Clinical, Genetic, and MRI Modalities
Student(s) Keen-Yin Woo **Grade** 11 **Town** Riverside

Greenwich Greenwich High School Andrew Bramante
3112 LS 2 Development of nnU-Net model for pediatric brain tumor segmentation in multi-modality MRI images
Student(s) Sophie Yu **Grade** 10 **Town** Riverside

Greenwich Sacred Heart Greenwich Mary Musolino
4009 PT 1 Advanced Water Purification using Activated Charcoal and Biochar
Student(s) Eliana Antenucci **Grade** 8 **Town** SCARSDALE
Mackenzie Malouin **Grade** 8 **Town** Rye

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Greenwich	Sacred Heart Greenwich	Mary Musolino	2502	L8	3	The Effect of Microwave Radiation on Weed Growth	Student(s) Li Bonito	Grade 8	Town Purchase
Greenwich	Sacred Heart Greenwich	Mary Musolino	2509	L8	1	Testing the Effectiveness of Green and Black Tea as a Plant Nutrient	Student(s) Paige Creegan	Grade 8	Town Briarcliff Manor
Greenwich	Sacred Heart Greenwich	Mary Musolino	2519	L8	2	The Effects Of Biochar as a Soil Conditioner to Enhance Plant Growth	Student(s) Noa Friedman	Grade 8	Town scarsdale
Greenwich	Sacred Heart Greenwich	Mary Musolino	4001	PT	1	Testing the Strength and Biodegradability of Watermelon Rind and Banana Peel-Based Bioplastics	Student(s) Stephanie Galvez	Grade 8	Town Greenwich
							Bonnie Ukperaj	Grade 8	Town Stamford
							Mia Cartagena	Grade 8	Town Stamford
Greenwich	Sacred Heart Greenwich	Mary Musolino	2514	L8	1	Bamboo Bio-Plastic	Student(s) Olivia Hastings	Grade 8	Town Greenwich
Greenwich	Sacred Heart Greenwich	Mary Musolino	1013	LT	2	The Effect of Silver Nanoparticles and Microplastics on the Reproductive Rate and Lifespan of Artemia Salina	Student(s) Sophia Iyer	Grade 8	Town Darien
							Sydney Bellissimo	Grade 8	Town Riverside
Greenwich	Sacred Heart Greenwich	Mary Musolino	1029	LT	1	Creating and Testing Mango and Pomegranate Peel-Based Bioplastics as Food Packaging and a Plastic Bag Substitute	Student(s) Mary McBreen	Grade 8	Town Greenwich
							Abby Knox	Grade 8	Town Greenwich

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Greenwich Sacred Heart Greenwich Joyce Reed

3001 LS 1 The Effect of Gender, Age, and Costoclavicular Symmetry or Asymmetry on the Costoclavical Interval for Neurogenic Thoracic Outlet Syndrome (nTOS) Patients

Student(s) Ann Slocum **Grade** 11 **Town** Pleasantville

Greenwich Sacred Heart Greenwich Mary Musolino Musolino

4020 PT 1 Using Clay Flocculation to Reduce Harmful Algae Blooms in a Body of Water

Student(s) Vivienne Vanderwilt **Grade** 8 **Town** Greenwich

Nora Mulcahy **Grade** 8 **Town** rye

Ariel Almonacy **Grade** 8 **Town** Greenwich

Greenwich Sacred Heart Greenwich Mary Musolino

1009 LT 2 Nature's Way: Creating and Testing Fruit Peel Extracts to Enhance Plant Growth

Student(s) Georgina Zakrzewski **Grade** 8 **Town** Greenwich

Shannon Clark **Grade** 8 **Town** Darien

Chloe Chawla **Grade** 8 **Town** Greenwich

Greenwich Western Middle School Andrew Bramante

5502 P8 1 Integration of Photoluminescent Manganese-doped ZnS Nanocrystals

Student(s) Alexandra Rothstein **Grade** 8 **Town** Greenwich

Hamden Hamden Hall Country Day School Paulomi Aldo

5525 P8 2 Maze Craze: Teaching AI how to solve mazes

Student(s) Ahmed Abdulkarim **Grade** 8 **Town** Cheshire

Hamden Hamden Hall Country Day School Paulomi Aldo

2507 L8 3 Do Disinfectants affect the Development of Bacterial Resistance

Student(s) Andrew Aldo **Grade** 8 **Town** Branford

Hamden Hamden Hall Country Day School Sarrah Gavin

3123 LS 1 The Association Between Treatment Choice and Breast Cancer Survival

Student(s) Anna Aslan **Grade** 9 **Town** Hamden

Hamden Hamden Hall Country Day School Lucia Jilaveanu

3140 LS 1 Caveolin-1 as a Biomarker and Potential Mediator of Melanoma Brain Metastasis

Student(s) Andrei Balas **Grade** 11 **Town** Cheshire

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Hamden	Hamden Hall Country Day School	Paulomi Aldo	5012	P7	2	what color will affect the temperature of water over time the most?	Student(s) Jason Cabral	Grade 7	Town Wallingford
Hamden	Hamden Hall Country Day School	John Scaife	3531	LST	1	Using Higuchi's Fractal Dimension and Kernel-Based Learning to Monitor Tremor Severity and Gait Dynamics in Parkinson's Disease	Student(s) Helena Chaine	Grade 12	Town Orange
							Linda Chen	Grade 11	Town Woodbridge
							Leon Jiang	Grade 11	Town New Haven
Hamden	Hamden Hall Country Day School	Paulomi Aldo	5002	P7	3	Water Pressure Rocket	Student(s) Russell Clune	Grade 7	Town Guilford
Hamden	Hamden Hall Country Day School	Gina D'Angelo	3149	LS	2	The correlation between mental health self awareness and actual mental health assessment in different demographics.	Student(s) Penelope Dwyer	Grade 10	Town Madison
Hamden	Hamden Hall Country Day School	Paulomi Aldo	5007	P7	1	How does dimple patterns affect a golf balls flight?	Student(s) David Esposito	Grade 7	Town North Haven
Hamden	Hamden Hall Country Day School	Gina D'Angelo	3063	LS	2	Investigation of the Effect of Microplastics on Seed Production of the Wisconsin Fast Plant	Student(s) Naomi Iwasaki-Medzhitova	Grade 10	Town Guilford
Hamden	Hamden Hall Country Day School	Robert Link	3134	LS	1	Development and experimentation of an AI algorithm alongside a Near-Infrared LED device to assist in venipuncture.	Student(s) Neev Makin	Grade 11	Town Hamden
Hamden	Hamden Hall Country Day School	Daniel Kemp	3065	LS	1	The role of glucose transporter 4 in cardiac virus infection	Student(s) Yidi Peng	Grade 11	Town New Haven

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Hamden Hamden Hall Country Day School Jacob Marchesi
6506 PST 1 Energy Absorption Efficiency of Various Crumple Zone Materials in Pendulum Impact Tests on Model Cars

Student(s) Frida Ramirez Moreno **Grade** 10 **Town** Meriden
Barbara Ramirez Moreno **Grade** 11 **Town** Meriden

Hamden Hamden Hall Country Day School Kelly Ryan
3106 LS 3 The Bioavailability of Lead (Pb) in Tampons

Student(s) Alessandra Sticca **Grade** 10 **Town** Milford

Hamden Hamden Hall Country Day School Yang Yang-Hartwich
3038 LS 1 Enhancing Ovarian Cancer Treatment in Chemotherapy Resistant BPRN-101 & BPRN-129 Cell Lines Utilizing Exosomal Chemotherapy Delivery

Student(s) Sophia Vash **Grade** 11 **Town** Fairfield

Hamden Hamden Hall Country Day School Paulomi Aldo
2008 L7 1 How do levels of U.V. light affect bacterial growth or mutations?

Student(s) Matthew Wallis **Grade** 7 **Town** Hamden

Hamden Hamden Hall Country Day School Patrick Fitzgerald
6023 PS 3 The effect of microwave plasma on the oxidation of limn electrodes for gel electrolyte metal oxide supercapacitors.

Student(s) Andrew Yang **Grade** 11 **Town** southbury

Hamden Hamden Hall Country Day School Paulomi Aldo
1015 LT 1 Curing E.Coli with antibiotic vs. Human Impact

Student(s) Bella Zhou **Grade** 8 **Town** Hamden, New Haven
Gabriela Pereira **Grade** 7 **Town** Hamden

Hamden Sacred Heart Academy Elizabeth Christophy
6085 PS 2 Testing the Water Absorptive Capacity of Agar-Based Biofilms

Student(s) Abigail Chang **Grade** 10 **Town** Bethany

Hamden Sacred Heart Academy Kelly Crusio
3095 LS 3 Water Purification: Removing E. Coli from Water Using Cotton T-Shirts

Student(s) Emily Crusio **Grade** 10 **Town** Southport

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Hamden	Sacred Heart Academy	Susan Nelson	3019	LS	3	The Effect of Polyester Microplastics in the soil on Lepidium sativum.	Khadija Elsamra	9	East Haven
Hamden	Sacred Heart Academy	Susan Nelson	6036	PS	3	The Effects of Using Paints on Outdoor Concrete Surfaces to Lower the Impact of Climate Change on Ground Temperatures	Willa Krishnaswami	9	Hamden
Hamden	Sacred Heart Academy	Paula Napychank	3089	LS	3	Rate of Evaporation of Thymol Oil in Thyme	Marianne Nable	9	Hamden
Hamden	Sacred Heart Academy	Paula Napychank	3007	LS	2	Assessing Hearing Risk: Analyzing Noise Levels of Hairdryers and Effective Sound Dampening Techniques	Alessandra Picard	9	MADISON
Hamden	Sacred Heart Academy	Elizabeth Christophy	6090	PS	3	See The Future: A Precise Eye Drop Delivery System	Gia Rybaruk	10	North Haven
Kent	Kent School	ZIHAO DU	6100	PS	2	Three-Support Lower-Limb Exoskeleton Device Integrating Multifunctionality and Feedback Mechanisms	OliviaLu Feng	11	Guangzhou, China
Kent	Kent School	Jesse Klingebiel	6044	PS	2	Optic Nerve Head is All You Need: Classification and Biomarker Identification in Neurodevelopmental Disorders via Representation Learning for Vasculature Features	Jiwon Hwang	11	Kent
Lakeville	The Hotchkiss School	Jennifer Rinehart	3031	LS	2	MTWSI-Net: Towards Improved Multi-Task Whole Slide Image Classification with Contrastive Learning	Sean Hwang	11	Falls Church

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Lakeville The Hotchkiss School Richard Kirby

3039 LS 1 Meta-analysis and Design of a Panel of Biomarkers Associated with Schizophrenia for the Development of a Comprehensive Diagnostic Test for Schizophrenia

Student(s) Sia Reddy **Grade** 11 **Town** Avon

Manchester Manchester High School Wendy Turek

3073 LS 2 The Effect of Nitrogen Enrichment on the Arousal of Astrangia Pocolata from Quiescence

Student(s) Bailey Downey **Grade** 12 **Town** Manchester

Manchester Manchester High School wendy Turek-Hernandez

3099 LS 3 the growth of Prevotella Melaninogenica in different alimentative solutions

Student(s) Elizabeth Gomez **Grade** 12 **Town** Manchester

Manchester Manchester High School Wendy Turek-Hernandez

3153 LS 1 Flood Wave Reduction Due to Artificial Reefs

Student(s) Anas Hales **Grade** 12 **Town** Manchester

Manchester Manchester High School Wendy Turek-Hernandez

3124 LS 2 The Biodegradation of UV Treated Polypropylene and Polyethylene Terephthalate by Aspergillus Terreus

Student(s) Mia Hernandez **Grade** 12 **Town** Manchester

Manchester Saint James School Brianna Hawkins

4013 PT 3 What is the Best Way to Remove Rust?

Student(s) Gavin Lowe **Grade** 7 **Town** Ellington
Austin O'Reilly **Grade** 7 **Town** Manchester

Manchester Saint James School Brinaa Hawkins

1016 LT 3 Which soda is the most acidic and which soda is most alkaline and how this could affect the human body and teeth.

Student(s) Hudson Prewo **Grade** 7 **Town** veron
Zachary Jasion **Grade** 7 **Town** Veron

Manchester Saint James School Brianna Hawkins

5520 P8 1 Why is wool warmer than most fabric?

Student(s) Saanvi Sethi **Grade** 8 **Town** Manchester

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Middletown Xavier High School David Applegate

3113 LS 3 The Impact of Edible and nonedible Plants on CO2 Consumption.

Student(s) Benjamin Akarotovic **Grade** 12 **Town** Wethersfield

Milford Platt Technical High School Sara Bruno

3029 LS 3 Water Retention for Flood Prone Areas While Supporting Native Ecosystems

Student(s) Noah Lehman **Grade** 11 **Town** Shelton

Milford Platt Technical High School Sara Bruno

6516 PST 3 Green Growth Academy

Student(s) Danyalis Perez-Cumba **Grade** 11 **Town** North Haven
Maureen Freire-Trejo **Grade** 11 **Town** Bridgeport
Karen Plazas **Grade** 11 **Town** Bridgeport

Montville Puryear Homeschool Mary Puryear

5008 P7 1 How to Use Windows to Get the Optimal Air Flow in a Room

Student(s) John Puryear **Grade** 7 **Town** Uncasville

Montville Puryear Homeschool Mary Puryear

3016 LS 2 The Effects of a Multiple-Day Period of Exercise-Induced Physiological Stress on Resting Heart Rate (RHR). Does Post-Stress Variation in RHR Correlate with Feelings of Fatigue?

Student(s) Clare Puryear **Grade** 9 **Town** Montville

Montville Saint Bernard School Alexandros Mathioudakis

3056 LS 2 Is My Medicine Making Me Sick? Linking Generative Pre-Trained Transformers with Python to Provide Insight on Side Effects of Medication

Student(s) Palmer Noe **Grade** 11 **Town** East Lyme

New Canaan New Canaan High School Michael LeDuc

3044 LS 2 Improving the Biological Accuracy of Gene Tree Simulations: Comparing Rates of Duplication, Transfer, and Loss in Real and Simulated Gene Trees with RANGER-DTL

Student(s) Kashvi Parashar **Grade** 11 **Town** New Canaan

New Haven Engineering and Science University Magnet School Alyssa Anderson

3506 LST 2 Evaluating the Use of Varying Media To Determine Optimal Conditions For the Increase of pH Levels and Potential Removal of Low-Concentration Pollutants in Acidic Ocean Environments

Student(s) Temiladeoluwa Adeniran **Grade** 12 **Town** Seymour
Titiladeoluwa Adeniran **Grade** 10 **Town** Seymour

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New Haven Engineering and Science University Magnet School Alyssa Anderson

3519 LST 1 A Comprehensive Method to Combat Antibiotic Resistance in Soil Microbes: Integration of CRISPR-Cas 9 Gene Editing and Nanoparticles for Enhanced Biodegradation of Pollutants

Student(s) Sahithi Aliminate **Grade** 10 **Town** Milford

Saket Aliminate **Grade** 11 **Town** Milford

New Haven Engineering and Science University Magnet School Alyssa Anderson

3008 LS 1 Evaluating LYVE1 Gene Expression in Breast Cancer Using qPCR Analysis and Comparing with Hyperparameter-Tuned Models for LYVE1 Gene Expression in Pancreatic Cancer

Student(s) Nivriith Ananth Iyer **Grade** 11 **Town** West Haven

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

3003 LS 1 Implementation and Validation of a Novel Machine-Learning-Based Mobile Gyrocardiography System for Arrhythmia Detection

Student(s) Ethan Joseph **Grade** 10 **Town** West Haven

New Haven Engineering and Science University Magnet School Alyssa Anderson

2013 L7 2 Do we link certain titles to certain emotions?

Student(s) Srikar Mandalika **Grade** 7 **Town** Milford

New Haven Engineering and Science University Magnet School Alyssa Anderson

5512 P8 3 Investigating the Chemical Properties and Efficiency of Homeade Batteries: A Focus on Voltage, Energy and Chemical Reactions

Student(s) Anabelle Silverman **Grade** 8 **Town** New Haven

New Haven Foote School Elliot Dickson

2016 L7 1 Studying Muscle Memory in Planaria to Understand Neurodegenerative Diseases

Student(s) Jessica Park **Grade** 7 **Town** New Haven

New Haven Sound School Chuck Mulligan

3525 LST 2 Potential Impact of Nutrien Loading on Nitrate Uptake of Chlorophytes.

Student(s) Sebastian Bianchine **Grade** 11 **Town** New Haven

Nick Bergeron **Grade** 11 **Town** New Haven

New Haven Sound School Charles Mulligan

3116 LS 3 Potential Impact of Acidity on Nitrate Uptake of Aquatic Plants.

Student(s) Chloe Hutchins **Grade** 9 **Town** Westbrook

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New Haven Sound School Chuck Mulligan

3042 LS 1 Evaluation of Potential Filtration Enhancements Applied to Municipal Water: Assessing Potential Ways to Reduce Enterococcus Bacteria Levels Discharging From Wastewater Facilities

Student(s) Britney Xochipiltecatl Cuahtepitz **Grade** 12 **Town** New Haven

New Haven Wilbur Cross High School Michael Sang

6070 PS 1 Exploring the Convergence of Juggler Sequences

Student(s) Julian Theodore **Grade** 11 **Town** New Haven

New Haven Worthington Hooker School Douglas Jones

1008 LT 2 How do different water solutions affect dyeing roses green?

Student(s) Paulina Borowski **Grade** 7 **Town** 41 Clinton Ave
Camila Guerrero Diaz **Grade** 7 **Town** New Haven

New Haven Worthington Hooker School Douglas Jones

1014 LT 2 The Effect of Different Lights on Plant Growth

Student(s) Daelen Dinkler **Grade** 7 **Town** New Haven
Nicholas Hadler **Grade** 7 **Town** New Haven

New Haven Worthington Hooker School Douglas Jones

2011 L7 2 Effects of Salinity, Water Temperature, and Distance on Electrolysis

Student(s) Samuel Kaplan-Fay **Grade** 7 **Town** New Haven

New Haven Worthington Hooker School Douglas Jones

2518 L8 3 Sugar's Effect on Teeth

Student(s) Emanuel Martinez-Quintero **Grade** 8 **Town** NEW HAVEN

New Haven Worthington Hooker School Douglas Jones

2510 L8 3 How do different cleaners affect plant growth?

Student(s) Nora Peaper **Grade** 8 **Town** New Haven

New Haven Worthington Hooker School Douglas Jones

1020 LT 1 Does Plant Orientation Affect Growth

Student(s) Sieun Yoo **Grade** 8 **Town** New Haven
Clarissa Castilio **Grade** 8 **Town** New Haven

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Newtown	Newtown High School	Timothy DeJulio	6052	PS	3	Utensil Solutions for Tremor Assistance and Neurological Disorders (USTAND)	Student(s) Rachael Albrecht	Grade 12	Town Newtown
Newtown	Newtown High School	Timothy DeJulio	3068	LS	3	Using Sunscreen as a Way to Distribute Beneficial Microorganisms for Corals (BMCs)	Student(s) Lydia Cox	Grade 12	Town Newtown
Newtown	Newtown High School	Timothy DeJulio	6105	PS	3	Carbon Fiber Composite Connecting Rods for Enhanced Strength and Efficiency	Student(s) Nate Hoag	Grade 11	Town newtown
North Haven	Slate School	Jennifer Staple-Clark	2004	L7	1	Petri Dish Experiments Exploring Bacteria Growth in Soil Samples With and Without Nitrogen-Fixing Bacteria	Student(s) Pierson Clark	Grade 7	Town North Haven
Norwich	Norwich Technical High School	Aleatha Pelloni	3515	LST	1	eDNA Testing for Invasive Species	Student(s) Jarelis Acevedo Nora Van Haitsma	Grade 11 Grade 11	Town Norwich Town Norwich
Norwich	Norwich Technical High School	Aleatha Pelloni	3012	LS	1	Proving Microplastics Transfer from Water to Living Organisms Through Vegetation	Student(s) Solibella Davis	Grade 11	Town New London
Norwich	Norwich Technical High School	Aleatha Pelloni	3509	LST	1	Impact of Sunscreen Contaminants on Plutes Growth and Development	Student(s) Addison Hackett Kaitlyn Tortorich	Grade 11 Grade 11	Town Willimantic Town Windham
Redding	CT STEM	Lindsay McCarthy	3027	LS	1	Determining the Correlation between Physician's Perspective on Cannabis Legalization and Physician Comfort Discussing Cannabis Use with Youth Patients	Student(s) Janet Fan	Grade 11	Town Woodbridge

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Redding CT STEM Lindsay McCarthy
3057 LS 1 Evaluating the Antifungal Potential of Citronella and Cassia Essential Oils at Different Concentrations Against the Mycelia Growth of *Bipolaris sorokiniana*
Student(s) Elena Huber **Grade** 10 **Town** Woodbridge

Redding CT STEM Sarah Reeves
3110 LS 2 Modeling Breast Cancer Invasion Using Active Brownian Dynamics
Student(s) Nicholas Lu **Grade** 11 **Town** Woodbridge

Redding CT STEM Lindsay McCarthy
6106 PS 2 Developing a Machine-Learning Driven Wearable Vest for Early Diagnosis and Management of Chronic Obstructive Pulmonary Disease through Vitals Analysis
Student(s) Aryan Shrivastav **Grade** 10 **Town** Orange

Redding Joel Barlow High School Paul Testa
6507 PST 2 Use of Machine Learning Algorithms to Predict Exoplanet Habitability
Student(s) Brian Cho **Grade** 11 **Town** Easton
Olivia Kotula **Grade** 11 **Town** Redding

Redding Joel Barlow High School Paul Testa
3122 LS 2 AI Prediction: Randomized Clinical Trial Enrollment
Student(s) Arianna Pereira **Grade** 11 **Town** easton

Redding Joel Barlow High School Paul Testa
6059 PS 2 Evaluating Market Efficiency Through Deep Learning: A Performative Analysis of LSTM Neural Networks, Actor-Critic Reinforcement Learning Models, and Technical Indicators
Student(s) Brian Weiss **Grade** 11 **Town** Redding

Ridgefield Ridgefield High School Ryan Gleason
6080 PS 3 Optimizing Extraction of Chitin from Crustacean Shells
Student(s) Arnab Bose **Grade** 12 **Town** Ridgefield

Ridgefield Ridgefield High School Ryan Gleason
3137 LS 2 The effect of positive thinking and mindset techniques on high school athletes
Student(s) Nora Foley **Grade** 12 **Town** Ridgefield

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Ridgefield Ridgefield High School Aine Kapell
3078 LS 2 The Effect of Chronic Versus Need-Based Stimulant Use on Sensitivity to Natural Reward in Drosophila Melanogaster.
Student(s) Sophia Nardi **Grade** 12 **Town** Ridgefield

Ridgefield Ridgefield High School Ryan Gleason
6071 PS 2 Modeling Connecticut's Climate: Predictive Insights and Strategic Recommendations
Student(s) Aakarsh Patel **Grade** 12 **Town** Ridgefield

Ridgefield Ridgefield High School Ryan Gleason
6028 PS 3 Predicting Salt Levels in Connecticut Freshwater Streams
Student(s) Grant Thorburn **Grade** 12 **Town** Ridgefield

Ridgefield Ridgefield High School Patrick Hughes
3052 LS 3 How nutritive versus non-nutritive sweeteners affect sleep quantity in drosophila melanogaster.
Student(s) Roopshi Vohra **Grade** 12 **Town** Ridgefield

Ridgefield Ridgefield High School Patrick Hughes
6053 PS 2 Synthetic Turf Fields Effect on Water Features
Student(s) Elayna Wright **Grade** 12 **Town** Ridgefield

Ridgefield Ridgefield High School Patrick Hughes
3046 LS 2 The Effects of Moisture Levels on Polystyrene Consumption in Tenebrio Molitor
Student(s) Elijah Yurkovsky **Grade** 12 **Town** Ridgefield

Salem Salem School Kevin Orenstein
5515 P8 3 Black Light Flash Light vs Normal Flash Light Through a Glass Prism
Student(s) Sloan D'Aquila **Grade** 8 **Town** Salem

Salisbury Indian Mountain School Sonya Friel
1011 LT 1 Microneedle constructs for cutaneous slow-release insulin and GLP-1 in diabetes mellitus
Student(s) Tianyu Xie **Grade** 8 **Town** Lakeville
Yiheng Zhao **Grade** 8 **Town** Lakeville

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Shelton Shelton Intermediate School Erica McNeil

4022 PT 2 Density and Dissolving Rates of different sweeteners

Student(s) Aria O'Connor **Grade 7** **Town** Shelton
Zara Patel **Grade 7** **Town** Shelton

Shelton Shelton Intermediate School Erica McNeil

5521 P8 2 What Ingredients Keep a Cereal Crunchy?

Student(s) Sneh Shah **Grade 8** **Town** Shelton

Shelton Shelton Intermediate School Erica McNeil

4027 PT 2 The Test of Time:

Student(s) Alaina Tran **Grade 8** **Town** Shelton
Zoey Stone **Grade 8** **Town** Shelton
Sophia McPadden **Grade 8** **Town** shelton

South Windsor South Windsor High School Danel Eitel

3530 LST 2 Grow Green w/ ProPreserve

Student(s) Sukaina Ali **Grade 10** **Town** South Windsor
Pooravi Srivastava **Grade 10** **Town** South Windsor

South Windsor South Windsor High School Danel Eitel

6509 PST 3 Driving Sustainability: Adopting Biofuel for a Greener Future.

Student(s) Ava Apeajyei **Grade 10** **Town** South Windsor
Makaya France-Bray **Grade 10** **Town** South Windsor

South Windsor South Windsor High School Suma Basavarappa

3144 LS 1 SiExo: Modular Bayesian-Optimized Dual-Ligand TfR/RVG Exosomes for siRNA Delivery and BBB Transcytosis in CNS Neurotherapeutics

Student(s) Samarth Basanth **Grade 11** **Town** South Windsor

South Windsor South Windsor High School Danel Eitel

3104 LS 2 Natural Air Purifier - Greenhouse gasses away!

Student(s) Nikshita Sree Ganesh Kumar **Grade 10** **Town** South Windsor

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South Windsor	South Windsor High School	Sivagami Chockalingam	3067	LS	1	Targeting Telomerase Activity in Malignant Cancer Cells: RNA Interference and Enzymatic Inhibition to Induce Growth Arrest, Senescence, and Block Metastatic Dissemination
		Student(s) Srinidhi Karthik			Grade 11	Town South Windsor
South Windsor	South Windsor High School	Danel Eitel	6079	PS	2	Biodegradable Packaging Materials: Using Polysaccharides found in Alginate Extract from Marine Macroalgae to mimic the structure and function of Conventional polymers
		Student(s) Tanvi Mishra			Grade 10	Town South Windsor
South Windsor	South Windsor High School	Danel Eitel	6514	PST	2	Waste to Watts
		Student(s) Rishi Murali			Grade 10	Town South Windsor
		Gavin Lippi			Grade 10	Town South Windsor
		Prahaladhan Rajarajan			Grade 10	Town south windsor
South Windsor	South Windsor High School	Danel Eitel	6094	PS	2	In-Situ Acetylene-Based Nitrogen Inhibitor To Reduce Soil-N loss in Cereal Crops
		Student(s) Sanjay Rajan			Grade 10	Town South Windsor
South Windsor	South Windsor High School	Danel Eitel	3512	LST	2	AlkaSand: A Comparative Analysis of Mineral Combinations for Enhanced Ocean Alkalinization to Mitigate Ocean Acidification
		Student(s) Shruti Shah			Grade 10	Town South Windsor
		Rayna Reed			Grade 10	Town South Windsor
South Windsor	South Windsor High School	April Davis	6519	PST	3	PFOAway: An Eco-Friendly, Affordable PFOA Absorbent & Degradation Tabletop Filtration Product
		Student(s) Akhil Shunmugaraja			Grade 10	Town South Windsor
		Neelesh Sathish			Grade 10	Town South Windsor
South Windsor	South Windsor High School	Danel Eitel	6501	PST	1	Watt Box
		Student(s) Mason Smith			Grade 10	Town South Windsor
		Prasun Modi			Grade 10	Town South Windsor

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South Windsor South Windsor High School Danel Eitel

6047 PS 1 OatNET: Novel Neural Network architecture & mathematical model for reducing Dense Layer computational complexity via ternary weight decomposition & rank-1 magnitude approximation.

Student(s) Karthik Srikumar **Grade** 10 **Town** South Windsor

South Windsor South Windsor High School Daniel Eitel

6505 PST 3 Eco-Capsule: Revitalization of Arid Soils

Student(s) Nithik Uppara Allabanda **Grade** 10 **Town** South Windsor

Shreyansh Banerjee **Grade** 10 **Town** South Windsor

Southington Southington High School Ismail Agirman

3060 LS 3 Mitigation of Cyclohexane Concentrations in Drinking Water using photosynthetic molecule Chlorophyll

Student(s) Esra Agirman **Grade** 9 **Town** Southington

Stamford Bi-Cultural Hebrew Academy Chris Graseck

2009 L7 1 The Effects of Dish Soap on Plants

Student(s) Caleb Moreen **Grade** 7 **Town** Stamford

Stamford King School Victoria Schulman

6057 PS 1 LungSCOPE: A Multimodal Machine Learning-Based Framework for Overall Survival Prediction in Non-Small Cell Lung Cancer

Student(s) Parker Hayashi **Grade** 12 **Town** Riverside

Stamford King School Victoria Schulman

6001 PS 1 Making a Real-Time Water Quality Monitor

Student(s) Sowa Laryea-Adjei **Grade** 11 **Town** Stamford

Stamford King School Victoria Schulman

6104 PS 1 A Voice Controlled Robotic Arm for Assisting Complex Surgical Tasks

Student(s) Dillon Maltese **Grade** 11 **Town** Greenwich

Stamford King School Victoria Schulman

6031 PS 2 An Effective Water Treatment Method: Adsorption of Ni(II) Ions in Water Using DNA-Wrapped Carbon Nanotubes

Student(s) Bruno Reinhoefer Ribeiro **Grade** 11 **Town** Riverside

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Stamford King School Victoria Schulman

3018 LS 2 Assessing the Public's Awareness and Susceptibility to Cyber Attacks

Student(s) Madeline Scanlon **Grade 12** **Town** New Canaan

Stamford King School Victoria Schulman

6095 PS 2 Comprehensive Assessment for Executive Dysfunction

Student(s) Vito Scutari **Grade 11** **Town** Norwalk

Stamford King School Victoria Schulman

3069 LS 1 Understanding the effect of nutrient additives on the growth and performance of the seaweeds
Saccharina latissima and Gracilaria mammillaris

Student(s) Lucia Vivanco **Grade 11** **Town** Stamford

Stamford King School Victoria Schulman

3026 LS 1 Treating APOE4-induced TGF β -mediated Perivascular Fibrogenic

Student(s) Leon Wang **Grade 11** **Town** Stamford

Stamford Laurel Springs School Vera Ulanovskaya

6046 PS 1 Research on Autoimmune Disease Spectrometer (RAD-Spec): A Machine Learning-Based Application
for Improving Accessibility to Autoimmune Research

Student(s) Victoria Makarov **Grade 11** **Town** Stamford

Stonington St. Michael School Anna Grossomanides

5009 P7 1 Acid Rain: how different materials dissolve in different vinegars

Student(s) Lucy Anderson **Grade 7** **Town** Pawcatuck

Stonington St. Michael School Anna Grossomanides

2014 L7 2 Investigating the Best Water for Flowering Annuals

Student(s) Tyler Baltrukonis **Grade 7** **Town** Pawcatuck

Stonington St. Michael School Anna Grossomanides

5014 P7 2 EMFasis on EMFs

Student(s) Lydia Scariati **Grade 7** **Town** Westerly

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Storrs-Mansfield	EO Smith High School	Cheryl Granger					
6504	PST	2	Is A.I. Intelligent Enough for STEM Learning?				
Student(s)			Stephanie Moon	Grade 9	Town	Mansfield	
			Raha Esmaili Zaghi	Grade 9	Town	Mansfield	
Storrs-Mansfield	EO Smith High School	Cheryl Granger					
6042	PS	3	Nature's Remedy: Understanding The Effects of Urban Tree Cover on Human Health				
Student(s)			Hiruni Witharana	Grade 11	Town	Storrs Mansfield	
Stratford	Saint Mark School	Alexander Kennedy					
5510	P8	3	Hydration Hero: Which Skin Moisturizer Works Best?				
Student(s)			Olivia Caserta	Grade 8	Town	Stratford	
Stratford	Saint Mark School	Alexander Kennedy					
5004	P7	2	Metal Vs. Alloy, Which is Stronger?				
Student(s)			Jaxon Keeler	Grade 7	Town	Stratford	
Thomaston	Thomaston High School	Eileen Stowe					
3005	LS	2	Fucus Vesiculosus Extract as a Biostimulant for Radish Plant Growth				
Student(s)			Emily Morton	Grade 12	Town	Thomaston	
Trumbull	Christian Heritage School	Daniel Cote					
6006	PS	2	The Removal of Microplastics in Drinking Water by Electrocoagulation: Building and Testing an Electrolysis Water Purification System				
Student(s)			Jessie Larson	Grade 11	Town	ORANGE	
Trumbull	Christian Heritage School	Nicole Camacho					
5503	P8	2	How do the ingredients in ice cream affect the ice cream's melting rate?				
Student(s)			Isaiah Silvestri	Grade 8	Town	Trumbull	
Trumbull	Christian Heritage School	Daniel Cote					
6101	PS	2	Eco-Friendly Paper Alternative made from bamboo fibers.				
Student(s)			Chloe Simon	Grade 11	Town	Trumbull	
Trumbull	Christian Heritage School	Daniel Cote					
6014	PS	2	Converting Plastic Water Bottle to 3D Printing Filament				
Student(s)			Zule Sun	Grade 11	Town	Trumbull	

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Trumbull Trumbull Agriscience & Biotechnology Center Kevin Boken

3514	LST	2	The Effect Of Phone Light Exposure On Heart Rate Patterns During Sleep.
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Student(s)	Ellie- ann Becker	Grade 11	Town shelton
	Noah Villanueva	Grade 11	Town Stratford
	Natalie Shove	Grade 11	Town Trumbull

Trumbull Trumbull Agriscience & Biotechnology Center Kevin Boken

6503	PST	1	Plant infused hydrogel bandage for improved wound care.
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Student(s)	Kate-Nicole Camotes	Grade 11	Town Milford
	Abril Garcia-Martinez	Grade 11	Town Bridgeport
	Leenoy Sahar	Grade 11	Town Trumbull

Trumbull Trumbull Agriscience & Biotechnology Center Kevin Boken

3533	LST	3	A Comparative Study Investigating the Role of Tryptophan on Memory in a Growing Brain
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Student(s)	Leah Carillo	Grade 11	Town Trumbull
	Aleksandra Czajkowska	Grade 11	Town Trumbull
	Sydney Girard	Grade 11	Town Trumbull

Trumbull Trumbull Agriscience & Biotechnology Center Kevin Boken

3523	LST	2	Medium Matters: Growth Comparison of Tomatoes in Three Cultivation Systems
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Student(s)	Leilani Gomez	Grade 11	Town Stratford
	Maddelin Olivares	Grade 11	Town Bridgeport
	Emilly Barreto	Grade 11	Town Bridgeport

Trumbull Trumbull Agriscience & Biotechnology Center Kevin Boken

3502	LST	1	Symbiotic Synthesis: Exploring the Co-Culture of Spirulina and Bacillus subtilis for Enhanced CO ₂ Absorption
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Student(s)	Autumn Settembre	Grade 9	Town Trumbull
	Johnathon Lin	Grade 9	Town Bridgeport

Wallingford Choate Rosemary Hall Dan Ismailescu

6078	PS	2	Largest Area of an Empty Rectangle Amongst Points in a Unit Square
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Student(s)	Benjamin Cha	Grade 10	Town Tenafly
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Wallingford Choate Rosemary Hall Ben Small

3155 LS 1 Development of an AI-Enabled Pressure-Sensing Mat System and Validation of Novel Gait Biomarkers Through Multi-Sensor Fusion for Early Detection of Neurodegenerative Disorders

Student(s) Rhea Doshi **Grade** 10 **Town** Farmington

Wallingford Choate Rosemary Hall Will Morris

3086 LS 3 RNA Editing Strategies for Correcting USH2A Mutations Associated with Usher Syndrome

Student(s) Rachel Fan **Grade** 10 **Town** Wallingford

Wallingford Choate Rosemary Hall Jan Cook

3032 LS 2 Global Spatial Analysis of Interactions between Urban Heat Islands and Heat Waves

Student(s) Johnny Guo **Grade** 11 **Town** Wallingford

Wallingford Choate Rosemary Hall Shiyao Gu

6086 PS 2 A Novel Fishbone-Shaped Smart Glove for Stroke Patients

Student(s) Jingyan Liu **Grade** 9 **Town** Shanghai

Wallingford Choate Rosemary Hall Scott Rozelle

3503 LST 2 Assessing the Effectiveness of Family Care Indicators as a Tool for Evaluating Parenting Practices in Rural China in the Digital Era

Student(s) Victoria Tang **Grade** 10 **Town** Wallingford
Philip Meng **Grade** 11 **Town** Andover

Wallingford Choate Rosemary Hall ning tang

6012 PS 1 Development of Innovative Low-Frequency Sound Absorption Structures Using Advanced Metamaterials

Student(s) Neil Wang **Grade** 10 **Town** long island city

Wallingford Choate Rosemary Hall Jan Cook

3036 LS 3 A Environmental Monitoring System Empowering Users to Enhance Air Quality Using Smart Sensing

Student(s) Siying Wang **Grade** 11 **Town** Wallingford

Wallingford Choate Rosemary Hall Zhiyuan Hu

3075 LS 1 Clinical Application of Early Cancer Diagnosis: Supervised and Semi-Supervised Neural Networking for the Detection and Classification of Circulating Tumor Cells

Student(s) Yumeng Wang **Grade** 11 **Town** Wallingford

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Waterbury	ACES at Chase	Rachel Murray	5015	P7	1	Analyzing DNA	Student(s)	Doreen Cajuste	Grade 7 Town Wolcott
Waterbury	ACES at Chase	Rachel Murray	4017	PT	3	Which Nail Polish Brand Resists Chipping?	Student(s)	Clara Dains Giuliana Occhino	Grade 7 Town Watertown Grade 7 Town Naugatuck
Waterbury	ACES at Chase	Rachel Murray	4006	PT	3	How Different Types Of 3D Printer Filament Is Strong And Works With 3D Printers	Student(s)	Cassandra Fretz Eve DeCesare	Grade 7 Town Naugatuck Grade 7 Town Naugatuck
Waterbury	ACES at Chase	Rachel Murray	1024	LT	3	Static Electricity's Effect On The Cells Of A Ball Cactus	Student(s)	Christian Hudobenko John Maddox	Grade 7 Town Meriden Grade 7 Town Southbury
Waterbury	ACES at Chase	Rachel Murray	5001	P7	3	What Materials Cause the Most Static Electricity to Light an Incandescent Light Bulb?	Student(s)	LaRaina Johnson	Grade 7 Town Waterbury
Waterbury	ACES at Chase	Rachel Murray	5005	P7	2	Leidenfrost effect, How Flame Resistant are Pineapples?	Student(s)	Kevin Linsley	Grade 7 Town Naugatuck
Waterbury	ACES at Chase	Rachel Murray	2015	L7	2	How can we use seed paper to reverse climate change and reduce sigle use plastic?	Student(s)	Logan Loc	Grade 7 Town Naugatuck
Waterbury	ACES at Chase	Rachel Murray	5010	P7	2	Brew Time: Tea and Strength	Student(s)	Jack Major	Grade 7 Town Watertown

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Waterbury	ACES at Chase	Rachel Murray	1004	LT	3	The Bioluminescent Fish Tank Lighter	Student(s)	Gaetano Medolli	Grade 7	Town	Naugatuck
								Xander Dejesus	Grade 7	Town	Beacon Falls
Watertown	Taft School	Amanda Benedict	3105	LS	2	Biomimetic Filtration: Applying the Voronoi Pattern of Sea Urchin Shells to Remove Lead from	Student(s)	Dongeon Rhee	Grade 9	Town	Watertown
Watertown	Taft School	Amanda Benedict	6008	PS	2	Adaptive Multi-Link Portable Knee Exoskeleton	Student(s)	Dylan Shi	Grade 10	Town	Watertown
Watertown	Taft School	Amanda Benedict	6067	PS	2	Bionic Shoulder Joint Based on Cable Powered Technology	Student(s)	Yan Chak So	Grade 10	Town	Watertown
Westport	Greens Farms Academy	Juli Gerdes	3119	LS	2	Drosophila Melanogaster As a Potential Model For Host-Microbe Interactions in IBD: Comparing the Efficacy of Different Probiotic Species on Dextran Sodium Sulfate-Induced Colitis	Student(s)	Viola Cullen	Grade 12	Town	Wilton
Westport	Greens Farms Academy	Mathieu Freeman	6032	PS	1	STUDYING THEORIES OF PREBIOTIC CHEMICAL EVOLUTION AND ABIOGENESIS BY TESTING THE PRESENCE OF THE PRECURSORS OF LIFE IN CLAY RESEARCH	Student(s)	Lourdes Hassan	Grade 12	Town	Wilton
Westport	Greens Farms Academy	Mathieu Freeman Freeman	3080	LS	3	Sports Nutrition -- Approaches Amongst US Junior Squash Athletes	Student(s)	Oscar Hecker	Grade 12	Town	Westport
Westport	Greens Farms Academy	Mathieu Freeman	5523	P8	3	Investigating Modified Dental X-Rays in Novel Digital Computed Radiography Imaging for Emergency Medical Services	Student(s)	Dylan Karpf	Grade 8	Town	Westport

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Westport	Greens Farms Academy	Mathieu Freeman	5506	P8	2	How Different Wing Shapes Affect The Way That Model Planes Fly	Student(s) Ben Kiev	Grade 8	Town Westport
Westport	Greens Farms Academy	Mathieu Freeman	3087	LS	3	The Reagents Luminol and Fluorescein and their Impact on DNA Degradation	Student(s) Arya Mattoo	Grade 12	Town Westport
Westport	Greens Farms Academy	Juli Gerdes	3002	LS	1	Investigating miR-30a-5p Modulation and its Impact on Glucose Uptake and Insulin Sensitivity in 3T3-L1 cells for Metabolic Disorder Research	Student(s) Katerin Pineda	Grade 12	Town Bridgeport
Westport	Greens Farms Academy	Juli Gerdes	3093	LS	3	Effects of Exosomes Secreted by Bone-Marrow Mesenchymal Stem Cells and Hydroxyapatite/Collagen Paste on the Acceleration and Promotion of Healing in an ACL Reconstruction	Student(s) Lydia San Jose	Grade 12	Town Darien
Westport	Greens Farms Academy	Juli Gerdes	3041	LS	1	The Effect of Nrf2 inhibition through Bexarotene on the chemoresistance of Esophageal Squamous Cell Carcinoma and Esophageal Adenocarcinoma Cell Lines.	Student(s) Stella Savone	Grade 12	Town Westport
Westport	Greens Farms Academy	Juli Gerdes	3071	LS	2	Examining The Potential Behavioral Changes of Drosophila Melanogaster Caused by the Inhalation of Lower Levels of Chlorine Gas	Student(s) Tyra Stephenson	Grade 12	Town Bridgeport
Westport	Greens Farms Academy	Mathieu Freeman	3050	LS	2	Equus Caballus and Human Heart Rate Variability Synchronization as a Model for Potential Atrial Fibrillation Treatment	Student(s) Adeline Thompson	Grade 12	Town Easton
Westport	Staples High School	Amy Parent	3118	LS	1	Effect of Diet on Lifespan, Tumor Burden and Wnt Signaling Activation in a Drosophila Apc1/Apc2-RasV12 Model of Colorectal Cancer	Student(s) William Boberski	Grade 12	Town Westport

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Westport	Staples High School	Amy Parent	3048	LS	2	The Effects of Vitamin D Supplementation on Duchenne Muscular Dystrophy (DMD) in C. Elegans	Student(s)	Nolan Franics	Grade 11 Town Westport
Westport	Staples High School	Amy Parent	3096	LS	1	The Effect of the Nutritional Supplement, Curcumin, on Vulval induction to evaluate its role in Epidermal Growth Factor Driven Cancers	Student(s)	Alexis Krenzer	Grade 12 Town Westport
Westport	Staples High School	Amy Parent	3115	LS	1	Effect of dietary sweeteners on lipid accumulation in obese C. elegans to evaluate if calorie-free sweeteners promote weight reduction.	Student(s)	Sienna Young	Grade 12 Town Westport
Wilton	Middlebrook School	Allison Norful	1006	LT	1	Smart Sprouts: Automated Precision Care for Optimal Plant Health	Student(s)	Anamitra Arjun	Grade 7 Town Wilton
								Anandita Arjun	Grade 7 Town Wilton
Wilton	Middlebrook School	Arnav Balaji	2522	L8	1	Kidney Chronicles: Genes at Work	Student(s)	Shushruth Balaji	Grade 8 Town Wilton
Wilton	Middlebrook School	Janica Bagosy	5519	P8	3	The Effect of Screen Time on Your Body's Circadian Rhythms	Student(s)	Kanira Baskar	Grade 8 Town WILTON
Wilton	Middlebrook School	Jessica Garcia	5527	P8	2	Smart Eye: Assistive Glasses for the Visually Impaired	Student(s)	Ishan Chugh	Grade 8 Town Wilton
Wilton	Middlebrook School	Nancy Wakeham	1018	LT	3	Beyond Skin Deep: Examining Bacteria on Beauty Blenders	Student(s)	Ava DiDonato	Grade 7 Town Wilton
								Sofia Coppola	Grade 7 Town Wilton

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Wilton	Middlebrook School	Leah Pariso	5013	P7	1	Cell Shield: Investigating Materials to Block Non-ionizing Radiofrequency Radiation from Common Cell Phone Use	Student(s) Bennett Norful	Grade 7	Town WILTON
Wilton	Middlebrook School	Debbie Mallozzi	5507	P8	1	Bus Notification System with Raspberry Pi	Student(s) Vidit Prabhu	Grade 8	Town Wilton
Wilton	Middlebrook School	Leah Pariso	4025	PT	3	How Sea Walls prevent erosion	Student(s) Rohan Sardana	Grade 7	Town Wilton
							Theo Mickelborough	Grade 7	Town Wilton
Wilton	Middlebrook School	Janica Bagosy	1026	LT	1	Ocean Acidification and Its on Plant Growth	Student(s) Alex Shiue	Grade 8	Town Wilton
							Kabir Rokkam	Grade 8	Town Wilton
Wilton	Middlebrook School	Allison Norful	5006	P7	3	How to increase hydrogen production	Student(s) Varshith Vijay Shankar	Grade 7	Town Wilton
Wilton	Wilton High School	Amy Capalbo	6033	PS	2	Development of a Fe3O4(Iron II, III Magnetite) Based Oil Contamination Removal System	Student(s) Arav Gupta	Grade 9	Town Wilton
Wilton	Wilton High School	Krystyna de Jacq	6010	PS	3	Leveraging natural language processing to identify real-time risk for mental health conditions among teens	Student(s) Jackson Norful	Grade 9	Town WILTON
Windsor	Academy of Aerospace & Engineering	Thomas Brown	5526	P8	3	Impact of Hydro-Turbines on Water Temperature	Student(s) Aditi Balajee	Grade 8	Town Ellington

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Windsor	Academy of Aerospace & Engineering	Lili Aramli	3010	LS	3	Investigating Over-the-Counter Drugs in Planarian Regeneration to Combat Healthcare Inequities in Underserved Communities	Student(s) Vanessa Bell	Grade 11	Town Windsor
Windsor	Academy of Aerospace & Engineering	Charles Copeland	3030	LS	2	Sustainable Electronics using Microbe based Conductor (SEMI-CONDUCTOR)	Student(s) Aarav Chevva	Grade 9	Town Ellington
Windsor	Academy of Aerospace & Engineering	Lili Aramli	3521	LST	3	Investigation on the side effects of caffeine, microplastics, and increasing temperatures on Danio rerio embryonic development.	Student(s) Duke Clotey Palaniappan Manikandan	Grade 9 Grade 9	Town Hartford Town Ellington
Windsor	Academy of Aerospace & Engineering	Lili Aramli	2504	L8	3	The determination of sunscreen consumer products effectiveness in protecting against UVA and UVB light exposure.	Student(s) Ana-Marlene Davis	Grade 8	Town Broad Brook CT
Windsor	Academy of Aerospace & Engineering	Charles Copeland	6039	PS	1	The Fibonacci sequence and generating electricity	Student(s) Marcus Davis	Grade 9	Town Broad Brook
Windsor	Academy of Aerospace & Engineering	Charles Copeland	3070	LS	2	The Study on the Effects of Nomophobia.	Student(s) Willard Davis	Grade 11	Town Broad Brook
Windsor	Academy of Aerospace & Engineering	Lili Aramli	3040	LS	2	Use of Honey as a Microbial Agent Against Bacterial Diseases	Student(s) Caleb Duru	Grade 12	Town New Britian
Windsor	Academy of Aerospace & Engineering	Thomas Brown	6096	PS	3	Investigating Aerodynamic In Shapes of Drone: How will it affect the speed, efficiency, and drag?	Student(s) Aulona Misini	Grade 12	Town Hartford

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Windsor Academy of Aerospace & Engineering Charles Copeland

6109	PS	2	Using Metal Cores as a Sustainable Energy Storage Solution Optimized by an AI-Driven Model to Predict Supply-Demand Dynamics of the Energy Market
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Student(s) Aaditya Sadhvani **Grade** 9 **Town** Ellington

Windsor Academy of Aerospace & Engineering Charles Copeland

6102	PS	2	Developing Autonomous and Adaptive Systems For Space-Exploration Robotics With Neuromorphic Frameworks and Artificial Intelligence
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Student(s) Rithvik Suren **Grade** 9 **Town** Ellington

Windsor Madina Academy Basma Sallam

6029	PS	3	Creating Prescription Adjustable Glasses to Treat Lazy-Eye
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Student(s) Yameen Ahmed **Grade** 12 **Town** Vernon

Windsor Madina Academy Basma Sallam

3529	LST	3	H2Oh No! What's in Your Water?
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Student(s) Huda Khaliq **Grade** 9 **Town** Windsor

Zaynab Khawaja **Grade** 9 **Town** Agawam

Raydiance Bennett **Grade** 9 **Town** Ludlow

Windsor The Loomis Chaffee School Koby Osei-Mensah

6107	PS	2	An Instant Depression Screening Method via Valence and Arousal Prediction from Electroencephalogram and Galvanic Skin Response Data via Unsupervised Representation Learning
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Student(s) Sunwoo Ria An **Grade** 10 **Town** Windsor

Windsor The Loomis Chaffee School Larry Brackney

6520	PST	1	Alternative Drivetrain System for Better Efficiency in FIRST Tech Challenge Robots
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Student(s) Emma Chu **Grade** 11 **Town** Ludlow

Yejoo Kwon **Grade** 11 **Town** Saratoga

Windsor The Loomis Chaffee School Koby Osei-Mensah

3130	LS	2	Bioremediation of PFAS: Integrating Oyster Shell Waste from Connecticut's Oyster Trail
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Student(s) Hyeonho Kim **Grade** 9 **Town** Windsor

Windsor The Loomis Chaffee School Koby Osei-Mensah

3051	LS	1	Differences in Proliferating and Non-Proliferating Oligodendrocyte Precursor Cell Morphologies
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Student(s) Yejoo Kwon **Grade** 11 **Town** Saratoga

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Windsor	The Loomis Chaffee School	Koby Osei-Mensah	6089	PS	2	Band-aid Hydration Monitor	Student(s) Ethan Liu	Grade 9	Town Farmington
Windsor	The Loomis Chaffee School	Koby Osei-Mensah	3107	LS	2	Differentiation and Functional Analysis of hESC - Derived Cerebral Organoids for Modelling the AUTS2 Variant	Student(s) JIAYI Liu	Grade 11	Town Windsor
Windsor	The Loomis Chaffee School	Koby Osei	6098	PS	1	A Multi-Modal Modular Robotic System: Self-Assembly and Navigation in Complex Terrains	Student(s) Michael Ma	Grade 9	Town Medina
Windsor	The Loomis Chaffee School	Koby Osei-Mensah	6002	PS	1	A Stroke of Genius: Applying Smart Wearable Technology to Record and Improve Freestyle Stroke in Competitive Swimmers	Student(s) George Mirgorodskiy	Grade 11	Town San Mateo
Windsor	The Loomis Chaffee School	Gaurav Sharma	3049	LS	2	RNA-Based Aptamers Targeting Claudin-5 Protein in Blood as a Biomarker for Suicidal Behavior	Student(s) Sahasra Reddy	Grade 10	Town West Hartford
Windsor	The Loomis Chaffee School	Koby Osei-Mensah	3094	LS	2	The Soft Finger Exoskeleton Designed for AI Prediction & Dexterity Enhancement in Degenerative Cervical Myelopathy via phone APP	Student(s) Gracie Shen	Grade 11	Town West Hartford
Windsor	The Loomis Chaffee School	Koby Osei-Mensah	3143	LS	1	Mismatch repair deficiency drives resistance to alkylating agents, allowing for mutation accumulation	Student(s) Lin Zhang	Grade 11	Town Greenwich
Woodbridge	Amity Regional High School	Lindsay McCarthy	6017	PS	1	Developing a Wireless, Discreet, Precise, and Painless Piezoelectric Micropump System for Diabetes Patients	Student(s) Joy Deng	Grade 11	Town Orange

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Woodbridge Amity Regional High School Lindsay McCarthy

3055 LS 2 Investigating the Impact of Serotonin Concentration on Human Brain Development and

Student(s) Yunah Kim **Grade** 12 **Town** Orange

Woodbridge Amity Regional High School Sarah Reeves

3108 LS 2 Determining the Relative Effectiveness of Post Breast Cancer Treatment Physical Therapy on Pain Reduction

Student(s) Nidhi Kompalli **Grade** 12 **Town** Bethany

Woodbridge Amity Regional High School Sarah Reeves

3136 LS 1 Development of a Solar-Powered Floating Phytoremediation Device to Filter Methyl Red Dye Utilizing a Rotating Inner Disk for Enhanced Water Circulation

Student(s) Youlmin Lee **Grade** 12 **Town** Woodbridge

Woodbridge Amity Regional High School Sarah Reeves

3128 LS 1 Enhancing Coral Reef Resilience Through Utilizing a Two-Part Dosing System to Increase the pH levels of CO₂-Acidified Ocean Water

Student(s) Jason Liang **Grade** 11 **Town** Woodbridge

Woodbridge Amity Regional High School Lindsay McCarthy

3009 LS 3 Determining if APOL1 Risk Variant Genes Increase the Expression of APOL1 in Human Kidney Tissue Among Patients with Proteinuria.

Student(s) Nathaniel Luciano **Grade** 11 **Town** Woodbridge

Woodbridge Amity Regional High School Sarah Reeves

6093 PS 3 Testing the Effectiveness of a Platinum Catalysts Supported by Zeolite Graphene at Different w/w in a Decalin Dehydrogenation Reaction

Student(s) Daniel Mathew **Grade** 12 **Town** Orange

Woodbridge Amity Regional High School Sarah Reeves

3037 LS 1 Determining how Comorbid AUD/SUD impacts Ketamine Treatment Outcomes in Veterans with PTSD/MDD

Student(s) Mila Mejnartowicz **Grade** 11 **Town** Woodbridge

Woodbridge Amity Regional High School Sarah Reeves

3074 LS 3 Investigating Possible Relationships between Features of EEG and Distortions of Speech and Thinking associated with Delta-9 Tetrahydrocannabinol (THC).

Student(s) Ashwin Menon **Grade** 11 **Town** Woodbridge

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Woodbridge Amity Regional High School Sarah Reeves

3043 LS 1 Light-microscopy based connectomics: Achieving dense reconstruction of brain tissue using pan-expansion microscopy and GFP expression

Student(s) Mihir Nandy **Grade** 11 **Town** Woodbridge

Woodbridge Amity Regional High School Nicholas Shamp

3147 LS 1 Determining the Effects of Wood Density on the Survival, Growth, Development, and Adult Emergence of Anoplophora glabripennis

Student(s) Sabrina Osowiecki **Grade** 12 **Town** Orange

Woodbridge Amity Regional High School Lindsay McCarthy

6076 PS 2 Developing a Solar-Powered Water Purification Device Using Hybrid Nanomaterials for Atmospheric Water Harvesting and Filtration

Student(s) Nikhil Petrov **Grade** 12 **Town** Woodbridge

Woodbridge Amity Regional High School Sarah Reeves

3151 LS 2 Determining the Relationship and Effects of KDM6A Isoforms on Epigenetic Contributions to Cancer in Mouse Models

Student(s) Dariush Raissi **Grade** 12 **Town** Woodbridge

Woodbridge Amity Regional High School Jacob Storeygard

6048 PS 2 Using physics-based machine learning models to adjust flow rates of Herschel-Bulkley fluids in Direct Ink Writing 3D printing processes

Student(s) Jacob Storeygard **Grade** 11 **Town** Woodbridge

Woodbridge Amity Regional High School Sarah Reeves

6037 PS 3 Investigating the Relationship Between the Luminosity and the Extent of the [O III] Narrow-Line Region in Nearby Type 2 Seyfert Galaxies.

Student(s) Tony Zhang **Grade** 11 **Town** Woodbridge