[SchTown] [School] [Teacher] atten	These judging results are unaudited by the fair's Database Committee. The CSEF reserves the right to correct the listings. Decial award winners are required to d the awards ceremony on Saturday. are to acknowledge by going to the CK-IN page.
Avon Talcott Mountain Academy Hannah Marye	
5511 P8 Mitigating the Threat of Microplastics in Drinking Water: Charcoal as Sustainable Filtration Materials	The Potential of Coconut Fiber and Activated Coconut
Student(s) Rhea Doshi	Grade 8 Town Farmington
Bethel Bethel Middle School Jason Maxwell	
2533 L8 D.E.R.M.A. (Dermatologic Equipment for Rapid Medical	Analysis)
Student(s) Toshan Bhattacharya	Grade 8 Town Bethel
Bozrah Fields Memorial School Joshua Fish	
5505 P8 Porosity, Permeability Rates, and Water Movement Thro Drainage Rock in the Excavation Trade	ough Various Commercial Crushed Rock Sizes as it Relates to
Student(s) Leah Kozerefski	Grade 8 Town Gilman
Bozrah       Fields Memorial School       Joshua Fish         5512       P8       Does Air Pressure Affect How Far A Soccer Ball Travels         Student(s) Tyler Savoie	In The Air When Kicked? Grade 8 Town Gilman
Bridgeport Black Rock School Tejas Godbole	
4003 PT Solar Powered Charger	Crada 9 Taum Bridgenort
Student(s) Nilah DeJesus Karina Conde	Grade 8 Town Bridgeport Grade 8 Town Bridgeport
Bridgeport Bridgeport Aquaculture Center Kirk Shadle	
3124 LS Utilizing the Nematocysts of Cassiopea xamachana as a Student(s) Grace Kistner	Grade 12 Town Fairfield
Bridgeport Bridgeport Aquaculture Center Kirk Shadle	
6009 PS Spiral Redirect of Heat Exchange Flow Through a Unique	
Student(s) Erika Pinto	Grade 12 Town Bridgeport
Brookfield Brookfield High School Jonathan Neuhausel	
6513 PST ParkBD: A Novel Multi-Modal Deep Learning Framework Parkinson's Disease	< for Biomarker Identification and Drug Repurposing in
Student(s) Shriya Jonnalagadda	Grade 11 Town Brookfield
Diya Girish Kumar	Grade 11 Town Brookfield
and Android Mobile App built using Flutter	nalog Sound Level Meter, OLED Display, GPS Sensor and iOS
Student(s) Suchita Srinivasan	Grade 9 Town Cheshire
Cheshire St. Bridget School Michelle Carroll	
5506 P8 Improving a Homemade Livestock Identification System	Grade 8 Town Cheshire

**Special Award Winners** 

[SchTown] [School] [Proj#] [FCat] [Project Title]	[Teacher]			
Cheshire St. Bridget School Mi	chelle Carroll			
5010 P7 Disaster Resilien	t Architecture:			
Student(s) Lu		Grade 7	Town	Hamden
Danbury Saint Gregory the Grea	t School Mrs. Fahey			
2017 L7 Soil Stability-				
Student(s) Cl	aire Calomeni	Grade 7	Town	danbury
Danbury Saint Gregory the Grea	t School Mrs. Fahey			
2005 L7 How can water b	e filtered in an inexpensive way?			
Student(s) Ri	ley Lamp	Grade 7	Town	New Fairfield
Danbury Westside Middle Schoo	I Academy Nancy Barlow			
1019 LT The Benefit of th	e BioBroth Bubbler on Formaldehyde-Infecte	d Air		
Student(s) Br	iti Kaur	Grade 8	Town	Danbury
Na	ashla Giron	Grade 8	Town	Danbury
Danbury Westside Middle Schoo	l Academy Ms.Barlow			
4013 PT A project to bene on the Latino and	afit all of the community, with dual-language s d Hispanic community.	stock market co	ourse ar	nd ML stock price predictor, focusing
Student(s) Al	ejandro Mayorga	Grade 8	Town	Danbury
Ma	atthew Guzman	Grade 8	Town	Danbury CT 06810
Danbury Westside Middle Schoo	I Academy Ms. Barlow			
2518 L8 The Effect of Pla	nt-Based Natural Pesticides on Tenebrio Mol	litors.		
Student(s) Ch	nristopher Mladen	Grade 8	Town	Danbury
Danbury Westside Middle Schoo	I Academy Nancy Barlow			
4010 PT The Benefit of ar	Automatic Electricity Blocking Device on Pre	eventing Wast	e of Ele	ctricity
Student(s) Le	a Sanchez-Dubois	Grade 8	Town	Danbury
Sh	natarupa Mandal	Grade 8	Town	Danbury
St	nezan Alladin	Grade 8	Town	Danbury
Danbury Westside Middle Schoo	I Academy Ms. Barlow			
1002 LT Promoting Outdo	oors Safety By Altering Pregnancy Tests to De	etect Urushiol		
Student(s) Al	ice Tran	Grade 8	Town	Danbury
Vi	anca Villacres	Grade 8	Town	Danbury
Th	nomas Lazo	Grade 8	Town	Danbury
•	<i>r</i> id Lewis			
	prehension Scores of Middle School Students	s Using Differe	ent Form	s of Reading (Assisted Reading
3127 LS Analysis of Com	prehension Scores of Middle School Students	s Using Differe Grade 12		s of Reading (Assisted Reading Darien
3127 LS Analysis of Com and Digital Texts	prehension Scores of Middle School Students ;) ndsey Darby			
3127 LS Analysis of Comp and Digital Texts Student(s) Lin Darien Darien High School Sar	prehension Scores of Middle School Students ;) ndsey Darby	Grade 12	Town	Darien

[SchTown] [Sc [Proj#] [FCat] [Pr	chool] roject Title	[Teacher] ]			
Ellington Ellington I	Middle Sch	ool Krista Brogle			
5504 P8 De	veloping ar	nd Quantifiying the Strength and Reliability of Sc	oft Robotics Tu	ibing At	tachment Methods
S	Student(s)	Thomas Gerlach	Grade 8	Town	Ellington
Enfield Chiaravalle	Academy	Timothy Coleman			
2007 L7 De	termining tl	ne optimal mixture of chicken compost, or sand	to grow beans		
S	Student(s)	Misha LaCroix	Grade 7	Town	Enfield
		Jayden Eldridge	Grade 7	Town	Somers
Enfield Chiaravalle	Academy	Timothy Coleman			
1011 LT Ho	w Lawn Ch	emicals Affect Soil Biodiversity			
S	Student(s)	Delphine Lamattina	Grade 8	Town	West Hartford
		Carys Wilson	Grade 8	Town	Somers
		Sabrina Plaz	Grade 8	Town	Suffield
Enfield Chiaravalle	Academy	Tim Coleman			
1016 LT Re	cycling Gre	ywater for Plant Growth			
S	Student(s)	Delainey Pappas	Grade 8	Town	Enfield
		Hadley Buttrey	Grade 8	Town	Windsor Locks
		Caleb Quinby	Grade 8	Town	Windsor
Enfield Chiaravalle	Academy	Timothy			
	nat water fil veloped cou	tration method can be quickly produced, require untries?	s little process	s, and ca	an provide clean water for less
S	Student(s)	Holt Serrano	Grade 8	Town	Somers
		John Donnelly	Grade 8	Town	Suffield
Fishers Island Fish	ners Island	School Michelle Zimberlin			
3018 LS My	tilus edulis	ability to control harmful algae blooms from nitro	ogen rich fertili	izer anc	l phosphorus rich fertilizer.
S	Student(s)	Madeleine Hatfield	Grade 12	Town	Mystic
Glastonbury Glasto	onbury Higi	n School Diane Pintavalle			
		T EFFECTS OF PHYTOHORMONES ON THE G WITH Quercus alba (WHITE OAK) IN THE F			
S	Student(s)	Kiernan Tierney	Grade 11	Town	Glastonbury
Greenwich Brunsw	ick School	Dana Montanez			
6506 PST Co	mparative a	analysis of the most efficient, accessible, and us	seful gasifiable	biomat	ter
S	student(s)	Thomas Armstrong	Grade 10	Town	Greenwich
		Eric Lorenz	Grade 10	Town	Greenwich
Greenwich Brunsw	ick School	Dana Montanez			
		ne relationship between sound frequencies and nent methods for the restoration of oyster reefs	settlement rate	es in pe	diveliger oyster larvae to develop
S	student(s)	Sebastian DeAngelis	Grade 11	Town	Darien
		John Morningstar	Grade 11	Town	Greenwich

[SchTown] [ [Proj#] [FCat] [	School] Project Title	[Teacher] ]				
Greenwich Bruns	wick School	Dana Montanez				
3516 LST T	he effects of	cable bacteria on r	educing methane produ	ction in microbial m	nethanogen populations	
	Student(s)	Jack Degl		Grade 10	Town Mahopac	
		Henry Johnson		Grade 10	Town Greenwich	
Greenwich Bruns	wick School	Mrs. Montanez				
6011 PS E	Development	of Eco-Navigation S s	System for Reducing Gre	eenhouse Gas Emi	issions of Ships using Wind-Assisted	
	Student(s)	Thomas Ewald		Grade 11	Town Greenwich	
Greenwich Bruns	wick School	Dana Montañez				
3519 LST T	he effects of	Light Pollution on t	he growth and health of	stone corals Monti	ipora Capricornia and Oxypora Coral.	
	Student(s)	Grayson O'Hara		Grade 10	Town Rye	
		Tucker Spiess		Grade 10	Town Old Greenwich	
Greenwich Bruns	wick School	Dana Montanez				
3526 LST T	he Nostoc Ef	fect: Creating the U	JItimate Biofertlizer to M	itigate Climate Cha	ange	
	Student(s)	Gabriel Trahanas		Grade 10	Town Riverside	
		Ryan Ahn		Grade 10	Town White Plains	
	wick School he Effectiven	Dana Montanez less of Ultraviolet L	ight Sterilization on Disir	nfecting Hydroponi	ic Systems	
	Student(s)	Oliver Velasco		Grade 10	Town Greenwich	
		nool Andrew Brand d Waste with Early		ad-Mold via BODI	PY-Colorimetric Card Detection of 1-O	octen
	3-ol					
	Student(s)	Amelia Foell		Grade 8	Town Greenwich	
Greenwich Centr	al Middle Sch	nool Andrew Bran	nante			
5507 P8 D	Demonstrating	g the Persistence of	Long Island Sound Pol	yaromatic Hydroca	arbon (PAH) Contamination	
	Student(s)	Bridget Hadden		Grade 8	Town Greenwich	
Greenwich Centr	al Middle Sch	nool Andrew J Bra	amante			
2508 L8 V	Vavelength-S	pecific Illumination	of Hydroponic Growth S	Systems, for Increa	sed Crop Production	
	Student(s)	Kate Wick		Grade 8	Town Greenwich, CT	
Greenwich Easte	ern Middle Scl	hool Andrew Brar	nante			
2503 L8 E	Enhancement	of Sleep Cycle Circ	cadian Rhythms via the	Introduction of Am	bient Sounds	
	Student(s)	Rachel Goldenbe	rg	Grade <sup>8</sup>	Town Greenwich	
Greenwich Easte	ern Middle Scl	hool Andrew Brar	nante			
5510 P8 C	oes Our Des	ire for Convenient	Spring Water Come at a	n Expense for Mea	aningful Microplastic Harm?	
	Student(s)	Sara Rahimtula		Grade 8	Town Old Greenwich	
Greenwich Green	wich Country	y Day School Nat	han Haag			
			oss in young teenagers			
	Student(s)	Lucas Murray		Grade 12	Town Greenwich	

[SchTown] [Proj#] [FCat]	[School] [Project Title]	[Teacher]		
Greenwich Gree	enwich High Scho	ol Andrew Bramante		
	Eco-Friendly Ren Adsorption Films		NH4+ from Water via SAI	P-Enhanced, Activated Food Waste Biochar
	Student(s) Au	idrey Lin	Grade 11	Town Riverside
Greenwich Gree	enwich High Scho	ol Andrew Bramante		
6043 PS	Reversible, Tuna Thermal Regulati	ble Metal Electrodeposition on Pling and Dynamic Optical Properti	t-Functionalized, Indium 1 es of Smart Windows	Fin Oxide, Transparent Electrodes for
	Student(s) Ma	deline Minichetti	Grade 12	Town Greenwich
Greenwich Gree	enwich High Scho	ol Mr. Andrew Bramante		
	Concurrent Remo Remediation Frai		bon Dioxide and Oil-in-W	ater Contaminants via Multi-Functional
	Student(s) Na	omi Park	Grade 11	Town Riverside
		ol Andrew Bramante		
6022 PS				or Removal of Oil Contaminants in Water.
	Student(s) Ry	an wadhwa	Grade 9	Town Greenwich
	0	ol Andrew Bramante		
	A Zero-Waste Pro Valuable Soil Ado		alnut Shell Waste to Light	-Hydrocarbon Fuels, Biopesticides, and
	Student(s) Ke	ira Young	Grade 12	Town Cos Cob
		bal Stimulant MGS-1 Enhancem	ents including a Novel Wa	ater/Nutrient Delivery System for Growing
	Student(s) Ch	arlotte Gannon	Grade 12	Town Greenwich
		ibella Leao	Grade 12	Town Greenwich
	Ro	bin Murphy	Grade 12	Town Cos Cob
Greenwich Wes	tern Middle Scho	ol Andrew Bramante		
2514 L8	· · · · ·	ome-Remedy Cleansers to Selec	-	
	Student(s) An	naya Khwaja-Patel	Grade 8	Town Greenwich
Guilford Guilford	d High School 🛛 🖌	Kristie Whitcomb		
6037 PS		ean's Noose: Designing a Ropel		
	Student(s) Mi	chael Neiss	Grade 12	Town Guilford
		Kristie Whitcomb ge: Music Therapy's Effect on Apa	athy in Parkinson's Disea	se Patients
	Student(s) Za	chary Neiss	Grade 12	Town Guilford
Hartford A.I. Prin	nce Technical Hic	h School Sarah Wilby		
0511   F51	-	ating your feet with the power of	your steps	
0311 F31	-		your steps Grade 11	Town New London
0311 F31	Bibby Socks - he Student(s) Es Bra			Town New London Town Hartlford Town Hartford

**Special Award Winners** 

	nces Magnet School Rebecca Hays	i		
	e application of granular sodium chlor t the quality of nearby bodies of water		n chlorid	e before and during winter weathe
	) Elizabeth D'Agostino	Grade 8	Town	New Britain
Kent Kent School Jesse Kli	ingebiel			
3045 LS Cell type-spe	ecific expression of the molecular play	/ers in mouse prefrontal c	ortex du	ring cocaine addiction
Student(s)	) Eric Teng	Grade 11	Town	San Marino
Litchfield Wamogo Regional	High School Fred Jaquin			
6041 PS Measuring C	Our Place in the Solar System:			
Student(s)	) Ryan Emanuel	Grade 10	Town	Morris
Manchester Manchester Higl	h School Jeffrey Labasi			
3019 LS The Isolation	And Identification Of Polystrene Deg	rading Bacteria From Zor	hobas N	Aorio
Student(s)	) Paris Bazemore	Grade 12	Town	manchester
Manchester St. James Schoo	ol Ellen Oei			
5005 P7 Which Rock	is more Porous?			
Student(s)	) Nick Grace	Grade 7	Town	Manchester
Milford Platt Technical High S	School Sara Bruno			
3508 LST Urban Hub F	Revitalization Project			
Student(s)	) Ashley Ramos	Grade 12	Town	Bridgeport
	Bruno Valdivia	Grade 12	Town	West Haven
	Katelyn Zayas	Grade 12	Town	New Haven
New Haven Engineering and	Science University Magnet School	Roger Rushworth		
3073 LS Assessing th	ne Effectiveness of Different Floccular	its on Algal and Agricultur	al Conta	mination in an Acidifying Ocean
Student(s)	) Saket Aliminate	Grade 9	Town	Milford
	Science University Magnet School	Roger Rushworth		
New Haven Engineering and	of the Efficient Blockage of RFID Rea truction Material	ders Based on the Thickn	ness, Dis	tance, and Density of Each RFID
6079 PS An Analysis				
6079 PS An Analysis Reader Obst	) Nivrith Ananth Iyer	Grade 9	Town	West Haven
6079 PS An Analysis Reader Obst Student(s)	) Nivrith Ananth lyer	Grade 9 Roger Rushworth	Town	West Haven
6079 PS An Analysis Reader Obst Student(s) New Haven Engineering and 2534 L8 Design and I	) Nivrith Ananth Iyer Science University Magnet School Implementation of a Novel Machine-Le	Roger Rushworth		
6079 PS An Analysis Reader Obst Student(s) New Haven Engineering and 2534 L8 Design and I Cervical Can	) Nivrith Ananth lyer Science University Magnet School	Roger Rushworth	tilizing Fo	
6079 PS An Analysis Reader Obst Student(s) New Haven Engineering and 2534 L8 Design and I Cervical Can Student(s)	) Nivrith Ananth Iyer Science University Magnet School Implementation of a Novel Machine-Luncer Detection via Biopsy Sample ) Ethan Joseph	Roger Rushworth earning-Based System Ut	tilizing Fo	eature Extraction for Precise
6079 PS An Analysis Reader Obst Student(s) New Haven Engineering and 2534 L8 Design and I Cervical Can Student(s) New Haven Engineering and 3016 LS Investigating	<ul> <li>Nivrith Ananth Iyer</li> <li>Science University Magnet School</li> <li>Implementation of a Novel Machine-Lencer Detection via Biopsy Sample</li> <li>Ethan Joseph</li> <li>Science University Magnet School</li> <li>the Usage of Treated Nano-Clay Conditional Science Conditin Science Conditional Science Conditional Science Conditional</li></ul>	Roger Rushworth earning-Based System Ut <b>Grade</b> 8 Ms. Alyssa Anderson	ilizing Fo Town	eature Extraction for Precise West Haven
6079       PS       An Analysis Reader Obst         Reader Obst       Student(s)         New Haven       Engineering and         2534       L8       Design and I         Cervical Can       Student(s)         New Haven       Engineering and         3016       LS       Investigating         Aqueous Sol       Sol	<ul> <li>Nivrith Ananth Iyer</li> <li>Science University Magnet School</li> <li>Implementation of a Novel Machine-Lencer Detection via Biopsy Sample</li> <li>Ethan Joseph</li> <li>Science University Magnet School</li> <li>the Usage of Treated Nano-Clay Conditional Science Conditin Science Conditional Science Conditional Science Conditional</li></ul>	Roger Rushworth earning-Based System Ut <b>Grade</b> 8 Ms. Alyssa Anderson	tilizing Fo <b>Town</b> Remova	eature Extraction for Precise West Haven
6079       PS       An Analysis and Reader Obstant (s)         Student(s)         New Haven       Engineering and I Cervical Can Student(s)         Student(s)       Student(s)	<ul> <li>Nivrith Ananth Iyer</li> <li>Science University Magnet School</li> <li>Implementation of a Novel Machine-Leacer Detection via Biopsy Sample</li> <li>Ethan Joseph</li> <li>Science University Magnet School</li> <li>the Usage of Treated Nano-Clay Condution</li> <li>Snigtha Mohanraj</li> </ul>	Roger Rushworth earning-Based System Ut Grade 8 Ms. Alyssa Anderson mposites for the Efficient I Grade 10	tilizing Fo <b>Town</b> Remova	eature Extraction for Precise West Haven I of Emerging Contaminants in an
6079       PS       An Analysis (Reader Obstance)         Reader Obstance       Student(s)         New Haven       Engineering and I (Cervical Cance)         2534       L8       Design and I (Cervical Cance)         Student(s)       Student(s)         New Haven       Engineering and I (Cervical Cance)         3016       LS       Investigating (Aqueous Sole)         Student(s)       Student(s)         New Haven       Engineering and I (Cervical Cance)         Student(s)       Investigating (Cervical Cance)         Student(s)       Student(s)	<ul> <li>Nivrith Ananth Iyer</li> <li>Science University Magnet School</li> <li>Implementation of a Novel Machine-Leacer Detection via Biopsy Sample</li> <li>Ethan Joseph</li> <li>Science University Magnet School</li> <li>the Usage of Treated Nano-Clay Condution</li> <li>Snigtha Mohanraj</li> </ul>	Roger Rushworth earning-Based System Ut Grade 8 Ms. Alyssa Anderson mposites for the Efficient I Grade 10 Roger Rushworth	tilizing Fo <b>Town</b> Remova	eature Extraction for Precise West Haven I of Emerging Contaminants in an

New Haven Sound School Charles Mulligan	
3520   LST   Potential role of proximity to creek source water on po	pulation dynamics of Eastern Oyster (Crassostrea Virginica)
Student(s) Emma Bigman	Grade 10 Town Middlebury
Sofia Roberts	Grade 10 Town Branford
Newtown Newtown High School Timothy Dejulio	
6010 PS Line Follower Car	
Student(s) Emily Li	Grade 10 Town Newtown
Pawcatuck St. Michael School Anna Helene Grossomanides	
2023 L7 Impact of Contaminants of Emerging Concern on Bear	n Seed Germination and Growth
Student(s) Addison Cadmus	Grade 7 Town Pawcatuck
Pomfret Pomfret School Joshua Lake	
6015 PS Research on sound generation through mechanical de	esign for pedestrian safety during low-speed driving
Student(s) Yuna Cho	Grade 10 Town Pomfret
Pomfret Pomfret School Joshua Lake	
3049 LS Detection and Remediation of War Polluted Soil Using	Deep Learning Robot and Soil Remediating Bioplastic (BioCor
Student(s) Yuree Oh	Grade 11 Town Seoul
Redding CT STEM Fair Catherine Piscitelli	
3110 LS Determining the Effects of Prolonged Starvation on the	e Survival, Growth, and Development of Lymantria dispar
Student(s) Sabrina Osowiecki	Grade 10 Town Redding
Ridgefield Ridgefield High School Patrick Hughes	
3036 LS Assessing the Impact of Synthetic Sweeteners on Hur	nger Perception in Drosophila Melanogaster
Student(s) Aditi Gupta	Grade 12 Town Ridgefield
Ridgefield Ridgefield High School Patrick Hughes	
Ridgefield         Ridgefield High School         Patrick Hughes           3076         LS         Assessing grid and curvilinear neighborhood layouts for the second sec	
3076 LS Assessing grid and curvilinear neighborhood layouts for Student(s) Charlotte Kemp	or their impact on wildfire damage
3076 LS Assessing grid and curvilinear neighborhood layouts for Student(s) Charlotte Kemp Ridgefield Ridgefield High School Patrick Hughes	or their impact on wildfire damage
3076 LS Assessing grid and curvilinear neighborhood layouts for Student(s) Charlotte Kemp Ridgefield Ridgefield High School Patrick Hughes	or their impact on wildfire damage Grade 12 Town RIDGEFIELD
3076       LS       Assessing grid and curvilinear neighborhood layouts for Student(s)         Charlotte Kemp         Ridgefield       Ridgefield High School       Patrick Hughes         6083       PS       Engineering a Methodology and Database to Efficientl         Student(s)       Heather Wallace	or their impact on wildfire damage Grade 12 Town RIDGEFIELD ly and Effectively Discover and Classify Micrometeorites
3076       LS       Assessing grid and curvilinear neighborhood layouts for Student(s)         Charlotte Kemp         Ridgefield       Ridgefield High School       Patrick Hughes         6083       PS       Engineering a Methodology and Database to Efficientl         Student(s)       Heather Wallace	or their impact on wildfire damage Grade 12 Town RIDGEFIELD ly and Effectively Discover and Classify Micrometeorites
3076       LS       Assessing grid and curvilinear neighborhood layouts for Student(s) Charlotte Kemp         Ridgefield       Ridgefield High School       Patrick Hughes         6083       PS       Engineering a Methodology and Database to Efficiently         Student(s)       Heather Wallace	or their impact on wildfire damage Grade 12 Town RIDGEFIELD ly and Effectively Discover and Classify Micrometeorites
3076       LS       Assessing grid and curvilinear neighborhood layouts for Student(s)         Charlotte Kemp         Ridgefield       Ridgefield High School       Patrick Hughes         6083       PS       Engineering a Methodology and Database to Efficiently         Student(s)       Heather Wallace         Shelton       Shelton Intermediate School       Erica Napoli         2008       L7       Color VS Memory         Student(s)       Ava Hamlin	or their impact on wildfire damage Grade 12 Town RIDGEFIELD ly and Effectively Discover and Classify Micrometeorites Grade 12 Town Ridgefield
3076       LS       Assessing grid and curvilinear neighborhood layouts for Student(s)         Charlotte Kemp         Ridgefield       Ridgefield High School       Patrick Hughes         6083       PS       Engineering a Methodology and Database to Efficiently         Student(s)       Heather Wallace         Shelton       Shelton Intermediate School       Erica Napoli         2008       L7       Color VS Memory         Student(s)       Ava Hamlin	or their impact on wildfire damage Grade 12 Town RIDGEFIELD ly and Effectively Discover and Classify Micrometeorites Grade 12 Town Ridgefield Grade 7 Town Shelton
3076       LS       Assessing grid and curvilinear neighborhood layouts for Student(s) Charlotte Kemp         Ridgefield       Ridgefield High School       Patrick Hughes         6083       PS       Engineering a Methodology and Database to Efficientl         Student(s) Heather Wallace         Shelton         Shelton       Shelton Intermediate School       Erica Napoli         2008       L7       Color VS Memory         Student(s) Ava Hamlin         South Windsor	or their impact on wildfire damage Grade 12 Town RIDGEFIELD ly and Effectively Discover and Classify Micrometeorites Grade 12 Town Ridgefield Grade 7 Town Shelton
3076       LS       Assessing grid and curvilinear neighborhood layouts for Student(s) Charlotte Kemp         Ridgefield       Ridgefield High School       Patrick Hughes         6083       PS       Engineering a Methodology and Database to Efficientle         Student(s) Heather Wallace         Shelton         Shelton       Shelton Intermediate School       Erica Napoli         2008       L7       Color VS Memory         Student(s) Ava Hamlin         South Windsor       South Windsor High School       Patti Stamper         6519       PST       Using organic dyes for a more economical approach to	or their impact on wildfire damage Grade 12 Town RIDGEFIELD ly and Effectively Discover and Classify Micrometeorites Grade 12 Town Ridgefield Grade 7 Town Shelton
3076       LS       Assessing grid and curvilinear neighborhood layouts for Student(s) Charlotte Kemp         Ridgefield       Ridgefield High School       Patrick Hughes         6083       PS       Engineering a Methodology and Database to Efficientl         Student(s)       Heather Wallace         Shelton       Shelton Intermediate School       Erica Napoli         2008       L7       Color VS Memory         Student(s)       Ava Hamlin         South Windsor       South Windsor High School       Patti Stamper         6519       PST       Using organic dyes for a more economical approach to Student(s)         Pranay Kakkar       Adithya Anand	or their impact on wildfire damage Grade 12 Town RIDGEFIELD ly and Effectively Discover and Classify Micrometeorites Grade 12 Town Ridgefield Grade 7 Town Shelton
3076       LS       Assessing grid and curvilinear neighborhood layouts for Student(s) Charlotte Kemp         Ridgefield       Ridgefield High School       Patrick Hughes         6083       PS       Engineering a Methodology and Database to Efficientl         Student(s)       Heather Wallace         Shelton       Shelton Intermediate School       Erica Napoli         2008       L7       Color VS Memory         Student(s)       Ava Hamlin         South Windsor       South Windsor High School       Patti Stamper         6519       PST       Using organic dyes for a more economical approach to Student(s)         Pranay Kakkar       Adithya Anand	or their impact on wildfire damage Grade 12 Town RIDGEFIELD ly and Effectively Discover and Classify Micrometeorites Grade 12 Town Ridgefield Grade 7 Town Shelton o a Dye Sensitized Solar Cell Grade 10 Town South Windsor Grade 10 Town South Windsor

Stamford King School Victoria Schulman			
6036 PS Environmental Remediation via Photocatalysis for Partial			
Student(s) Antonia Kolb	Grade 11	Town	New Canaan
Stamford King School Victoria Schulman			
3048 LS Knockdown of the essential 23S rRNA methyltransferase tuberculosis to macrolides	, rv3579c, increas	es the si	usceptibility of Mycobacterium
Student(s) Yuriy Sandmeier	Grade 12	Town	New Rochelle
Stamford King School Victoria Schulman			
6087 PS Designing a Simulation for Aerothermodynamic Performa Designs for Space Exploration and Missile Defense Reer		spheric \	Vehicles and Ablative Heat Shield
Student(s) Ryan Wempen	Grade 11	Town	Stamford
Storrs E. O. Smith High School Cheryl Granger			
6040 PS Multi Temporal Analysis of Beaver Activity in Connecticut	Forests Using Ae	rial Imag	gery
Student(s) Hiruni Witharana	Grade 9	Town	Storrs Mansfield
Stratford St. Mark School Alexander Kennedy			
2006 L7 The Stroop Effect Student(s) Julianne Gonzalez	Grade 7	Tourn	Stratford
	Grade /	TOWN	Siration
Suffield Suffield High School Melanie Brown	· O · · · · · · · · · · · · · ·	0	1°1
3098 LS The Impacts of the Permanent Implementation of Dayligh			
Student(s) Emma Conway	Grade 11	Iown	Suffield
Suffield Suffield Middle School Melanie Brown			
4012 PT Technical and Economic Feasibility of Photovoltaic Windo		-	0.45
Student(s) Shaunak Ukidwe Arnav Ukidwe	Grade 8		Suffield Suffield
	Grade 8	Town	Sumera
6080 PS Designing a Device to Charge a Cellphone Using Energy			
	Created by a Bicy Grade 11		Inderdeveloped Areas Trumbull
6080 PS Designing a Device to Charge a Cellphone Using Energy			
6080 PS Designing a Device to Charge a Cellphone Using Energy Student(s) Abigail Nagel			
6080       PS       Designing a Device to Charge a Cellphone Using Energy         Student(s)       Abigail Nagel         Trumbull       Christian Heritage School       Nicole Blaskewicz		Town	
6080       PS       Designing a Device to Charge a Cellphone Using Energy         Student(s)       Abigail Nagel         Frumbull       Christian Heritage School       Nicole Blaskewicz         5502       P8       How Ice vs. No Ice Affects a Stirling Engine         Student(s)       Charles Orban	Grade 11	Town	Trumbull
6080       PS       Designing a Device to Charge a Cellphone Using Energy         Student(s)       Abigail Nagel         rumbull       Christian Heritage School       Nicole Blaskewicz         5502       P8       How Ice vs. No Ice Affects a Stirling Engine         Student(s)       Charles Orban	Grade 11 Grade 8	Town	Trumbull Norwalk
6080       PS       Designing a Device to Charge a Cellphone Using Energy         Student(s)       Abigail Nagel         Frumbull       Christian Heritage School       Nicole Blaskewicz         5502       P8       How Ice vs. No Ice Affects a Stirling Engine         Student(s)       Charles Orban         Frumbull       Christian Heritage School       Ms. Blaskewicz	Grade 11 Grade 8	Town Town	Trumbull Norwalk
6080       PS       Designing a Device to Charge a Cellphone Using Energy Student(s) Abigail Nagel         Frumbull       Christian Heritage School       Nicole Blaskewicz         5502       P8       How Ice vs. No Ice Affects a Stirling Engine         Student(s)       Charles Orban         Frumbull       Christian Heritage School       Ms. Blaskewicz         5509       P8       Solar Storms and Magnetometers: What is a solar storm, Student(s)         Grace Rowe       Student(s)       Grace Rowe	Grade 11 Grade 8 and how do mag	Town Town	Trumbull Norwalk ers contribute to society today?
6080       PS       Designing a Device to Charge a Cellphone Using Energy         Student(s)       Abigail Nagel         rumbull       Christian Heritage School       Nicole Blaskewicz         5502       P8       How Ice vs. No Ice Affects a Stirling Engine         Student(s)       Charles Orban         rumbull       Christian Heritage School       Ms. Blaskewicz         5509       P8       Solar Storms and Magnetometers: What is a solar storm, Student(s)         Grumbull       Trumbull High School       Steffanie Elkins	Grade 11 Grade 8 and how do magr Grade 8	Town Town netomete Town	Trumbull Norwalk ers contribute to society today? Trumbull
6080       PS       Designing a Device to Charge a Cellphone Using Energy Student(s) Abigail Nagel         Frumbull       Christian Heritage School       Nicole Blaskewicz         5502       P8       How Ice vs. No Ice Affects a Stirling Engine         Student(s)       Charles Orban         Frumbull       Christian Heritage School       Ms. Blaskewicz         5509       P8       Solar Storms and Magnetometers: What is a solar storm, Student(s)         Grace Rowe       Frumbull       Trumbull High School	Grade 11 Grade 8 and how do magr Grade 8	Town Town netomete Town	Trumbull Norwalk ers contribute to society today? Trumbull
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6080       PS       Designing a Device to Charge a Cellphone Using Energy Student(s) Abigail Nagel         Frumbull       Christian Heritage School       Nicole Blaskewicz         5502       P8       How Ice vs. No Ice Affects a Stirling Engine         Student(s)       Charles Orban         Frumbull       Christian Heritage School       Ms. Blaskewicz         5509       P8       Solar Storms and Magnetometers: What is a solar storm, Student(s)         Grace Rowe       Frumbull       Trumbull High School         Student(s)       Steffanie Elkins         3022       LS       The Effect of Different Concentrations of Caffeine on Acid	Grade 11 Grade 8 and how do magr Grade 8 dophilic and Alkali Grade 12	Town Town netomete Town ohilic Pla Town	Trumbull Norwalk ers contribute to society today? Trumbull ants Trumbull

### **Special Award Winners**

[SchTown] [School] [Teacher] [Proj#] [FCat] [Project Title]	
Wallingford Choate Rosemary Hall Jan Cook	
3007 LS Development of Buoyant, Lignin-Based Fulvic Acid S	upply Device (FASD) to Prevent Ocean Desertification
Student(s) Yoon Ha Lee	Grade 11 Town Seoul
Wallingford Choate Rosemary Hall Jan Cook	
3040 LS TopoCan: A Novel Histopathological System for Clinic Learning	cal Prediction with Topology- and Spatial Genome-Informed De
Student(s) Isabella Wu	Grade 11 Town Wallingford
Wallingford Choate Rosemary Hall Jan Cook	
6064 PS A Self-Stabilizing Haptic Accessibility Mouse for Park	inson's Disease Sufferers
Student(s) Jingyuan Zhang	Grade 10 Town Wallingford
Wallingford Choate Rosemary Hall Christopher Hogue	
6069 PS Probing Neural Networks for Visio-Linguistic Feature	Binding
Student(s) Minzhi Zhang	Grade 11 Town Wallingford
Waterbury ACES at Chase Anne Pember	
2013 L7 Removing Sodium Nitrate from run off water	
Student(s) Joel Brooks	Grade 7 Town Naugatuck
Waterbury ACES at Chase Anne Pember	
5513 P8 THe Design and Experimentation of Creating a Cold I	Pack Out of Household Items
Student(s) Brock Dauber-Katz	Grade 8 Town Thomaston
Westbrook Westbrook High School Mr. Zebrowski	
6047 PS Linear Particle Accelerator	
Student(s) Enzo Adorno	Grade 12 Town Westbrook
Wilton Middlebrook School Kendra Norman	
5002 P7 BlindSight	
Student(s) Arav Gupta	Grade 7 Town Wilton
Wilton Middlebrook School Jessica Garcia	
5517 P8 Identifying Skin Lesions with Artificial Intelligence	
Student(s) Leonardo Kulon	Grade 8 Town Wilton
Wilton Middlebrook School Kelly DePiano	
2525 L8 Preventing Hypoxia using Magnetism	
Student(s) Anshika Saagi	Grade 8 Town Wilton
Wilton Middlebrook School Ms. Kelly Depiano	
5516 P8 How to See Beyond What the Eye Can See (How to b size)	puild a Microscope to see objects smaller than 1 micrometer in
Student(s) Angela Varghese	Grade 8 Town Wilton
Windsor Academy of Aerospace and Engineering Michelle Bellinger	·
3024 LS Non-Invasive Pre-screening Approach for Early Detection Cancer Prevention in Underrepresented Demographic	tion of The Human Papillomavirus (HPV) to Aid in Cervical

[SchTown] [Proj#] [FCat]	[School] [Project Title]	[Teacher]			
Windsor Acade	•	0 0	elle Bellinger		
6512 PST		gy from the Wind by Con	nbining Piezoelectrics		
	Student(s) Ro			Grade 11	Town Middletown
	Aa	arush Singh		Grade 11	Town South Windsor
Windsor Madin	a Academy Mrs	.Sana Farooqi			
6063 PS	Investigating the	effect of dimpled and tu	bercled geometries in	conjunction of	on the drag and lift of airfoils.
	Student(s) Ta	sneem Zoghol		Grade 10	Town Enfield
Windsor The Lo	oomis Chaffee Sc	hool Koby Osei-Mensa	ah		
6003 PS	Improving Photo	electric Conversion Effic	iency of the Solar Cell	with Silica-B	Based-Aerogel-Coated Surface
	Student(s) Ya	in Che		Grade 11	Town Shanghai
Woodbridge Ar		n School Catherine Pis Pediatric Bionic Ankle T		ting and Integ	gration of an Intelligent Fluidic Joint Control
	Student(s) Ac	liti Bhattamishra		Grade 11	Town Orange
Woodbridge Ar	nity Regional Higl	n School Catherine Pis	scitelli		
6061 PS	Creating and Tes	sting a Novel Drone Swa	arm Mapping and Surv	eillance Algo	prithm
	Student(s) Fr	ancis Cavallaro		Grade 12	Town Orange
Woodbridge Ar	nity Regional Higl	n School Catherine Pis	sctielli		
6070 PS	Development of	an Autonomous Device	that uses Heart Rate a	and Vibration	al Pulses to Reduce Stress
	Student(s) Sh	eehan Munim		Grade 12	Town Orange
Woodbridge Ar	nity Regional Higl	n School Catherine Pis	scitelli		
6017 PS	Optimizing Reinf Navigation Al	orcement Learning Usin	g Dynamic Environme	nt Manipulati	ion to More Efficiently Train Autonomous
	Student(s) Aa	arav Patel		Grade 11	Town Orange
Woodbridge Ar	nity Regional Hig	n School Catherine Pis	scitellli		
6025 PS	Modeling Subco Memory Artificial	tical-Cortical Interaction Neural Network	s During Reward-Base	ed Decision N	Making Using a Hierarchical Temporal