



Connecticut Science Fair

Quinnipiac University

March 13 - 17, 2012

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

Finalists

Finalist Codes

1 = CSF 1st Honors
 AT = Applied Technology
 BT = Biotechnology
 CS = Computer Science
 ET = Energy
 EV = Environmental Sciences
 FS = Future Sustainability
 MA = Mathematics
 SRP = Sustainable Resources and Practices
 SH = Science Horizons
 USC = Urban School Challenge

[SchTown]	[School]	[Teacher]	[Project Title]	[Proj#]	[FCat]	[Finalist]	Student(s)	Grade	Town	
Avon	Talcott Mountain Academy	Tom Noonan	Life Sciences - Middle School 8th Grade	2509	L8	EV	Do Ambient Temperatures Affect Bat Mortality?	Student(s) Gwynne Domashinski	Grade 8	Town West Suffield
Avon	Talcott Mountain Academy	John Pellino	Life Sciences - Middle School 7th Grade	2004	L7	1	Environmental Acidity and Bioluminescent Algae	Student(s) Abigail Marmer-Adams	Grade 7	Town Colebrook
Avon	Talcott Mountain Academy	John Pellino	Life Sciences - Middle School 8th Grade	2525	L8	CS	How Do Different Colors and Sizes Affect Memory	Student(s) Mark Shapiro	Grade 8	Town Glastonbury
Bethel	Bethel High School	Turek	Life Sciences - High School Individual	3079	LS	EV	Pigeon Talk: A Bio-acoustical Analysis of Variation in Male Fantail Pigeon Display Calls	Student(s) Aiden Ford	Grade 11	Town Bethel
Bethel	Bethel Middle School	Mr. Labounty	Life Sciences - Middle School 8th Grade	2516	L8	1 EV BT	The Effect of Different Organic Materials on the Number of Ants Repelled	Student(s) Nicolas Cazzaniga	Grade 8	Town Bethel
Bethel	Bethel Middle School	Mr. Reynolds	Physical Sciences - Middle School Teams	4029	PT	1	How Does Combining Metals Lead to Rust Development	Student(s) Jessica MacIntyre Kallan Hook	Grade 7 Grade 7	Town Bethel Town Bethel
Bozrah	Fields Memorial School	Mrs. E. Brown	Physical Sciences - Middle School 8th Grade	5532	P8	1	Greener Cleaner? Testing the Level of Phosphates in Everyday Cleaners	Student(s) Megan Lavallee	Grade 8	Town Bozrah
Bozrah	Fields Memorial School	Mrs. E Brown	Physical Sciences - Middle School 7th Grade	5021	P7	1 CS	What variables affect the grasp efficiency of a robotic arm?	Student(s) Emily O'Connor	Grade 7	Town Bozrah
Bozrah	Fields Memorial School	Mrs. E Brown	Life Sciences - Middle School 8th Grade	2534	L8	MA CS	Password Security	Student(s) Connor Provost	Grade 8	Town Bozrah
Bozrah	Fields Memorial School	Mrs. E Brown	Life Sciences - Middle School 8th Grade	2503	L8	1 EV	Teredo Navalis - A Population Density Study	Student(s) Nicholas Tatro	Grade 8	Town Bozrah
Bridgeport	Bassick High School	A. Walsh	Physical Sciences - High School Teams	6506	PST	USC	Visible Light Scattering Analysis To Detect Lead	Student(s) Karen Seymour Lydia Guadalupe	Grade 11 Grade 11	Town Bridgeport Town Bridgeport

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Student(s)

Bridgeport Bridgeport Aquaculture School Mr. Shadle Physical Sciences - High School Individual
6037 PS USC Geometrical Symmetry Analysis of the Skeletonema costatum Amorphous Cell Structure
Student(s) **Genesis Garcia** Grade 12 Town Bridgeport

Bridgeport Bridgeport Aquaculture School Mr. Shadle Physical Sciences - High School Individual
6031 PS 1 EV USC The Investigation of the Role of Methylating Bacteria in the Reintroduction Of Mercury into Long Island Sound
Student(s) **Allison Haley** Grade 12 Town Shelton

Bridgeport Central High School Ms. Sullivan Physical Sciences - High School Teams
6525 PST CS USC Javonic Bonding
Student(s) **Monsurat Olaosebikan** Grade 11 Town Bridgeport
Carolyn Roach Grade 11 Town Bridgeport
Jaymi Gooden Grade 11 Town Bridgeport

Bridgeport Cesar A. Batalla School Mr. Bell Physical Sciences - Middle School 7th Grade
5017 P7 USC Energy Saver
Student(s) **Johnny Lopez** Grade 7 Town Bridgeport

Bridgeport John Winthrop School Susan Beres Physical Sciences - Middle School Teams
4033 PT 1 Tension Tamers
Student(s) **Kara Cloud** Grade 7 Town Bridgeport
Edgar Martinez Grade 7 Town Bridgeport

Bridgeport John Winthrop School Mr. Walsh Life Sciences - Middle School 8th Grade
2530 L8 USC GMO or no GMO
Student(s) **Timothy Graham** Grade 8 Town Bridgeport

Bridgeport Park City Magnet School Mrs. Simone Physical Sciences - Middle School 8th Grade
5522 P8 USC Color Flash At Work
Student(s) **Anna Chanyarakkul** Grade 8 Town Bridgeport

Bridgeport Park City Prep Charter School Mrs. Vicky Boudreau Life Sciences - Middle School Teams
1001 LT USC Is Your Daphnia Hopped Up On Caffeine?
Student(s) **Genesis Moran** Grade 7 Town Bridgeport
Jania Oliver-White Grade 7 Town Bridgeport

Bridgeport Thurgood Marshall Middle School Carmen Andrews Life Sciences - Middle School 8th Grade
2501 L8 EV SRP Rock the Brownfields Green: Food for Fungi
Student(s) **Ann Hewitt** Grade 8 Town Fairfield

Bridgeport Thurgood Marshall Middle School Carmen Andrews Life Sciences - Middle School 7th Grade
2007 L7 1 BT USC Peel Power
Student(s) **Jonathan Siveyer** Grade 7 Town Monroe

Danbury Danbury High School Mr. LaRosa Life Sciences - High School Individual
3084 LS 1 EV BT The Biological Control of Zebra Mussels Using the Marine Natural Product Aaptamine.
Student(s) **Janine Kerr** Grade 9 Town Danbury

Danbury Danbury High School Mr. Tracey Life Sciences - High School Individual
3007 LS BT Antibiotic inactivation at home: A Proposal for Disposal Can antibiotics be inactivated so that they may be disposed of down the drain?
Student(s) **Fiona Lunt** Grade 10 Town Danbury

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Student(s)

Danbury Immaculate High School Mrs. Murphy Life Sciences - High School Teams

3510 LST 1 ET Microbial Fuel Cell Efficiency and Design

Student(s) Merna Haddad Grade 11 Town Danbury

Adriana DeNardis Grade 11 Town Danbury

Danbury St. Joseph School Mrs. J. Page Life Sciences - Middle School Teams

1027 LT BT Hidden Horrors: Do Germs Lurk in Our School?

Student(s) Michael Casino Grade 7 Town Brewster

Rachel Hewitt Grade 7 Town Danbury

Danbury St. Joseph School Jennifer Page Life Sciences - Middle School Teams

1002 LT 1 Is it REALLY Blood?

Student(s) Alex Christoforides Grade 7 Town Danbury

John Mollenthiel Grade 7 Town Danbury

Danbury St. Joseph School Mrs. Page Life Sciences - Middle School 7th Grade

2030 L7 1 How Does Caffeine Effect the Heart

Student(s) Wes Gannon Grade 7 Town Danbury

Danbury St. Joseph School Mrs. Page Physical Sciences - Middle School 7th Grade

5005 P7 1 ET Designing an Effective Dye-Sensitized Solar Cells

Student(s) Martha Haddad Grade 7 Town Danbury

Danbury St. Joseph School Mrs. Page Physical Sciences - Middle School 7th Grade

5032 P7 1 AT SRP Ocean Wave and Tide Energy Project

Student(s) James Parris Grade 7 Town Brookfield

Danbury St. Peter-Sacred Heart Upper School Mr. Greg Capone Physical Sciences - Middle School 8th Grade

5505 P8 CS Programming NANORGS in a Virtual World

Student(s) Gabriel Correa Grade 8 Town Danbury

Darien Darien High School David Lewis Life Sciences - High School Individual

3057 LS 1 Use of Formant Values in Classifying Vocalizations of Beluga Whales (*Delphinapterus leucas*)

Student(s) Brooke Davis Grade 12 Town Darien

East Granby East Granby Middle School Ms. Scull Life Sciences - Middle School 8th Grade

2539 L8 1 Pharmaceutical and Herbal Antibiotic Effectiveness on Bacteria from Multiple Collection Sources

Student(s) Matthew Borsari Grade 8 Town East Granby

East Granby East Granby Middle School Mr Paskiewicz Physical Sciences - Middle School 8th Grade

5520 P8 1 Comparison of Baseball Bat Composition: Safety

Student(s) Gavin McConnell Grade 8 Town East Granby

East Granby East Granby Middle School Robert Paskiewicz Life Sciences - Middle School 8th Grade

2522 L8 1 The Dirt on Worms

Student(s) Olivia Morris Grade 8 Town East Granby

East Hartford Connecticut IB Academy Ms. MeghanTwohig Life Sciences - High School Individual

3052 LS EV The Effectiveness of *P.virgatum* inoculated with Mycorrhizal fungi at remediating formaldehyde (Voc) in a controlled environment

Student(s) Marrium Qureshi Grade 11 Town Windsor

Fairfield Fairfield College Preparatory School Dr. Lewis Physical Sciences - High School Individual

6008 PS 1 AT ET BT Novel Fiber Optic Dye Sensitized Solar Cell Aided by the Biosynthesis of Diatom Frustules

Student(s) Kyle Ryan Grade 11 Town Trumbull

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Student(s)

Fairfield	Fairfield Warde High School	Andrew Bramante	Physical Sciences - High School Individual
6045	PS	1	A Hidden Treasure; Dehumidification of Air Improves Indoor Air Quality
Student(s)		Sofia Bramante	Grade 10 Town Fairfield
Fairfield	Our Lady of the Assumption School	Mrs. Kathy Almeida	Physical Sciences - Middle School 8th Grade
5524	P8	SRP	Do Brightly Colored Roofs Reduce Thermal Radiation?
Student(s)		Patrick Agonito	Grade 8 Town Fairfield
Fairfield	Our Lady of the Assumption School	Kathy Almeida	Physical Sciences - Middle School 8th Grade
5551	P8	1	Which Plane Design Creates the Greatest Lift?
Student(s)		Matthew Boykin	Grade 8 Town Bridgeport
Fairfield	Our Lady of the Assumption School	Kathy Almeida	Life Sciences - Middle School 8th Grade
2540	L8	1 SRP BT	The Effects of De-Icing Salts and Chemical Compounds on Adiantum pedatum
Student(s)		Amanda Gerstenfeld	Grade 8 Town Fairfield
Glastonbury	Glastonbury High School	Ms. Pintavalle	Life Sciences - High School Individual
3081	LS	MA	Assessment of the Accuracy of the Euroscore and STS risk predicting algorithms for patients undergoing Aortic Valve Replacement
Student(s)		Omar Allam	Grade 12 Town glastonbury
Glastonbury	Glastonbury High School	Diane Pintavalle	Physical Sciences - High School Individual
6043	PS	1	The Coordination of Glucose with Transition-Metal-Ion Complexes of tris(2-aminoethyl)amine
Student(s)		Kashish Hora	Grade 11 Town Glastonbury
Glastonbury	Smith Middle School	Mr. Falcigno	Physical Sciences - Middle School 8th Grade
5528	P8	1 AT ET	On the Application of Electrochemical Double Layer Capacitors
Student(s)		Paul Han	Grade 8 Town Glastonbury
Glastonbury	Smith Middle School	Mr. Falcigno	Physical Sciences - Middle School Teams
4027	PT	ET	Solar Panel in Greenhouse
Student(s)		Ninad Vora	Grade 7 Town Glastonbury
		Soham Kale	Grade 7 Town Glastonbury
Greens Farms	Greens Farms Academy	Sara Campolettano	Physical Sciences - Middle School 8th Grade
5554	P8	MA	Ski Physics
Student(s)		Grant Moberg	Grade 8 Town Westport
Greens Farms	Greens Farms Academy	Tracy Haswell	Life Sciences - High School Individual
3026	LS	ET FS	Algae Biodiesel
Student(s)		Emily Petno	Grade 12 Town New Canaan
Greens Farms	Greens Farms Academy	Dr. Mathieu Freeman	Physical Sciences - High School Individual
6052	PS	AT	Paper Batteries: A Viable Lithium Ion Battery Technology
Student(s)		William Picoli	Grade 12 Town Wilton
Greenwich	Brunswick School	Mrs. Dana Montanez	Physical Sciences - High School Teams
6501	PST	1 ET	A Comparative Analysis of Bio-Diesel Emissions Versus Emissions of Petroleum Diesel
Student(s)		Matthew Mayfield	Grade 11 Town Greenwich
		Vikram Bodas	Grade 10 Town Greenwich
Greenwich	Brunswick School	Dana Montanez	Physical Sciences - High School Individual
6004	PS	AT	The Efficiency of Air Multiplication Technology versus the Efficiency of Bladed Fan Technology
Student(s)		Spencer McDonough	Grade 10 Town Greenwich

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Greenwich	Convent of the Sacred Heart School	Mary Musolino	Life Sciences - High School Individual
3092	LS	BT	Creating a Cre/Lox Barcoding System: a Potential Breakthrough in Tracking the Heterogeneity of Glioblastoma Multiforme
Student(s)		Catherine Colford	Grade 12 Town Scarsdale
Greenwich	Eastern Middle School	Brian Carstens	Life Sciences - Middle School 8th Grade
2512	L8	1 AT ET SRP BT	An Investigation Into Hydrogen-Producing Green Algae
Student(s)		Paul Hansel	Grade 8 Town Old Greenwich
Greenwich	Greenwich High School	Andrew Bramante	Physical Sciences - High School Individual
6021	PS	AT EV	Remediation of Heavy Metals from River Water via a Novel Lemna minor Activated On-line Filtration System
Student(s)		Nicholas Dorian	Grade 12 Town Riverside
Greenwich	Greenwich High School	Andrew Bramante	Physical Sciences - High School Individual
6079	PS	1 ET	Recovery of Light Hydrocarbon Fuels from PETE Recycling with Concurrent Reduction in the Recyclable Footprint
Student(s)		Clara Eizayaga	Grade 11 Town Riverside
Greenwich	Greenwich High School	Andrew Bramante	Physical Sciences - High School Individual
6049	PS	1	An Organic Thin Film Transistor and Elastic Organic Solar Cell Based Electronic Skin for Biochemical and Tactile Sensing
Student(s)		Ryota Ishizuka	Grade 12 Town Cos Cob
Greenwich	Greenwich High School	Andrew Bramante	Life Sciences - High School Individual
3095	LS	1	The Effect of Disinfectant Byproducts in Relation to Allergic Asthma
Student(s)		Morgan Karetnick	Grade 12 Town Greenwich
Greenwich	Greenwich High School	Andrew Bramante	Life Sciences - High School Individual
3099	LS	1 BT	The regeneration of human tooth enamel in physiological conditions
Student(s)		Stephen Le Breton	Grade 11 Town Greenwich
Greenwich	Greenwich High School	Andrew Bramante	Physical Sciences - High School Individual
6063	PS	1 EV	Simplified Detection of Aromatic Nitroamine Pesticides using Bee Venom Luminescence
Student(s)		Brittney Lew	Grade 11 Town Riverside
Greenwich	Greenwich High School	Andrew Bramante	Life Sciences - High School Individual
3042	LS	1 EV FS	Mycoremediation of PCB Soil Contaminants with Pleurotus Ostreatus
Student(s)		Mallory Madfes	Grade 11 Town Greenwich
Greenwich	Greenwich High School	Andrew Bramante	Life Sciences - High School Individual
3045	LS	1	The Compatibility Between Pure 2-D Sericin Membranes and Cell Growth
Student(s)		Jed McKinney	Grade 11 Town Old Greenwich
Greenwich	Greenwich High School	Andrew Bramante	Life Sciences - High School Individual
3070	LS	EV FS	Non-Invasive Dissipation of 2,4-D Pesticide in Standing Water Using Iris Versicolor
Student(s)		Anne Merrill	Grade 10 Town Old Greenwich
Greenwich	Greenwich High School	Andrew Bramante	Physical Sciences - High School Individual
6032	PS	1 AT ET FS	Design of a Smart Brick with Improved Insulation and Intuitive Reflection of Sunlight
Student(s)		Lindsey Noskin	Grade 11 Town Greenwich
Greenwich	Greenwich High School	Andrew Bramante	Life Sciences - High School Individual
3074	LS	EV	Novel Removal of Escherichia Coli 0157:H7 from Fresh Water Sources using Amino Acid Attractants
Student(s)		Shira Rieke	Grade 10 Town Old Greenwich

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Greenwich Greenwich High School Andrew Bramante Physical Sciences - High School Individual
6075 PS 1 ET FS Application of iDS-PBR to Prolongate Algal Photobiolysis in C. Reinhardtii
Student(s) **Thomas Yang** Grade 11 Town Greenwich

Greenwich Greenwich High School Andrew Bramante Life Sciences - High School Individual
3034 LS 1 BT Graphene Oxide as a Novel Biosensor in Targeted Delivery of Water-Insoluble Cancer Drugs
Student(s) **Annie Zhang** Grade 11 Town Cos Cob

Guilford E. C. Adams Middle School Ms. Arnold Life Sciences - Middle School 7th Grade
2018 L7 1 Ants, Glucose, Diabetes...Huh?
Student(s) **Manik Jayawardena** Grade 7 Town Guilford

Guilford Guilford High School John Cuddy Physical Sciences - High School Individual
6003 PS 1 Aerodynamic drag of bicycle wheels and its effect on total drag of a rider and his bike
Student(s) **Giuseppe Pantalone** Grade 9 Town Guilford

Hamden Hamden High School Sonia Beloin Life Sciences - High School Individual
3061 LS 1 Role of MyD88 in DNA Damage Response
Student(s) **Yiyuan Hu** Grade 12 Town Hamden

Hamden Sacred Heart Academy Dr. Elizabeth Christophy Life Sciences - High School Individual
3075 LS 1 BT A Study of "Ebb and Flo" Aquaponics as the Most Effective Growing System for Romaine Lettuce as Compared to a Hydroponic and an Organic, Soil-Based, Growing System
Student(s) **Olivia Kelly** Grade 10 Town Shelton

Hartford Academy of Aerospace and Engineering Dr. Aramli Life Sciences - High School Individual
3004 LS USC Bio-engineering: Microbial Properties of Shark Skin and Other Natural Surfaces
Student(s) **Russell Weeks** Grade 11 Town Portland

Hartford Classical Magnet School Ms. Paula Koenig Physical Sciences - Middle School 7th Grade
5044 P7 USC Aerodynamics
Student(s) **Holly Weldon** Grade 7 Town South Windam

Hartford Greater Hartford Academy of Math & Science Dr. Aramli Life Sciences - High School Teams
3508 LST 1 USC The Effect of Drugs and Herbal Remedies on Propionibacterium Acnes
Student(s) **Kush Desai** Grade 12 Town Rocky Hill
Rushi Shah Grade 11 Town Rocky Hill
Jasmine Wilson Grade 11 Town Rocky Hill

Hartford Greater Hartford Academy of Math & Science Dr. Aramli Life Sciences - High School Individual
3098 LS USC The Effects Of Commercial Non-Agricultural Target Specific And Non-Specific Herbicides at Specific Temperatures On The Embryonic Development Of Zebrafish
Student(s) **Rishmitha Satyaneni** Grade 12 Town Farmington

Hebron Oei Home School Mrs. Ellen Oei Physical Sciences - Middle School 8th Grade
5525 P8 1 MA AT ET SRP Development of a Prototype Pendulum Wave Energy Conversion Device
Student(s) **Maura Oei** Grade 8 Town Hebron

Hebron RHAM High School Mrs. Kristin Spinelli Physical Sciences - High School Individual
6081 PS EV ET BT The Use of Berries from Connecticut Invasive Plants in Dye- Sensitized Solar Cells
Student(s) **Tim Breckel** Grade 9 Town Hebron

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Kensington	St. Paul School	Bethany Perzanowski	Life Sciences - Middle School 7th Grade
2013	L7	1	THE ECO-FRIENDLY DIAPER: LANDFILL DESIGN. "The Type of Cloth Versus the Rate of Decomposition"
Student(s)		Elizabeth Lopreiato	Grade 7 Town New Britain
Madison	Daniel Hand High School	Madhuparna Roychoudhury	Physical Sciences - High School Teams
6517	PST	1 AT ET	Can you charge your phone wirelessly? Cordless electricity transmission by piezoelectric excitation via low frequency acoustic waves.
Student(s)		Shayan Roychoudhury	Grade 9 Town Madison
		Wesley Kimmel	Grade 10 Town Madison
Madison	Our Lady of Mercy School	Rosalie Zonder	Life Sciences - Middle School 7th Grade
2011	L7	1	The Efficacy of Bleach as a Disinfectant
Student(s)		Nicole Bonadies	Grade 7 Town Branford
Manchester	East Catholic High School	Ms. Holly Noble	Physical Sciences - High School Individual
6002	PS	1 MA ET FS BT	Polyvinylidene Fluoride (PVDF) Piezoelectric Generator: A Novel Approach to Harvesting Vibrations from Human Respiration to Power Biological Implant Devices
Student(s)		Bridget Oei	Grade 10 Town Hebron
Manchester	St. Bridget School	Kim Maysonet	Physical Sciences - Middle School 8th Grade
5502	P8	1 ET	The Stirling Engine and the Effect of Temperature Differential on Engine Performance
Student(s)		Nicole Robitaille	Grade 8 Town Manchester
Middletown	Xavier High School	Manoj Rahematpura	Physical Sciences - High School Teams
6515	PST	1 ET	Testing the Viability of Adaptive Winglet Technology to Improve Fuel Efficiency on Midsize Commercial Airliners using Computational Fluid Dynamics
Student(s)		Christopher Muckle	Grade 12 Town Madison
		Miraj Rahematpura	Grade 12 Town Middletown
		Mario Chris	Grade 11 Town Storrs
New Britain	Sacred Heart School	Mrs. Kornas	Life Sciences - Middle School 7th Grade
2010	L7	1	Total Suspended Solids on Waste Water
Student(s)		Mateusz Gaciarz	Grade 7 Town New Britain
New Hartford	Montessori Middle School at Millstream Farm	Caren Ross	Life Sciences - Middle School Teams
1016	LT	1	Harvesting Wild Yeast For Local Sourdough
Student(s)		Una Shea	Grade 8 Town Litchfield
		Brooke Hurst	Grade 8 Town West Simsbury
		Samantha Brady	Grade Town Thomaston
New Haven	Betsy Ross Arts Magnet School	Mrs. Cichus	Life Sciences - Middle School 7th Grade
2022	L7	BT	One Dog's Poop, Another Man's Treasure.
Student(s)		Brian Brigham	Grade 7 Town Orange
New Haven	Betsy Ross Arts Magnet School	Mrs. MacDonald	Life Sciences - Middle School 8th Grade
2524	L8	USC	The Effects of Symphytum on Bone Cell Growth
Student(s)		Evan Robison	Grade 8 Town Wallingford
New Haven	Cooperative Arts & Humanities High School	Shelia Martin-Corbin	Physical Sciences - High School Individual
6071	PS	USC	Battle Of The Solvents-thin Layer Chromatography
Student(s)		Maired Brennan	Grade 9 Town New Haven

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Student(s)

New Haven Hopkins School Frank Slack Life Sciences - High School Individual

3080 LS 1 Expression Patterns of MicroRNA-228 in C. Elegans

Student(s) Mariel Shlomchik

Grade 11 Town Woodbridge

New Haven Wilbur Cross High School Mary DeRome Life Sciences - High School Teams

3512 LST 1 USC Brachypodium distachyon: Building a Better Biofuel

Student(s) Tarpley Hitt

Grade 11 Town New Haven

Alessandra Hogan

Grade 11 Town New Haven

New Haven Worthington Hooker Middle School Douglas Jones Life Sciences - Middle School 7th Grade

2033 L7 USC The Clean Water Project

Student(s) Yogasai Gazula

Grade 7 Town New Haven

New Haven Worthington Hooker Middle School Doug Jones Physical Sciences - Middle School Teams

4024 PT 1 ET USC Increasing Solar Energy

Student(s) Joshua Levine-Ritterman

Grade 8 Town New Haven

Foster Hall

Grade 8 Town New Haven

Newtown Newtown Middle School Betty Jeanne Liberty Physical Sciences - Middle School Teams

4035 PT 1 The Effect of Soil Type on Earthquake Damage

Student(s) Lydia Field

Grade 8 Town Newtown

Caitlin Moss

Grade 8 Town Sandy Hook

Newtown St. Rose of Lima School Mrs. Dimon Life Sciences - Middle School Teams

1010 LT 1 BT Testing the Effect of pH Levels of Polluted Fresh Water on Elodea Canadensis Life Span

Student(s) Lauren Cirone

Grade 7 Town Newtown

Anna Brubaker

Grade 7 Town Southbury

Newtown St. Rose of Lima School Mrs. Dimon Physical Sciences - Middle School 7th Grade

5025 P7 1 EV The Investigation of the Presence of Caffeine in Groundwater and Sewage

Student(s) Grace Herrick

Grade 7 Town Sandy Hook

Norwalk All Saints Catholic School Erin Snow Physical Sciences - Middle School 8th Grade

5541 P8 1 A Bridge Too Strong

Student(s) Zachary Guerrera

Grade 8 Town Norwalk

Norwalk The Montessori Middle School Carolyn Stenerson Life Sciences - Middle School 7th Grade

2006 L7 1 Affects of Phosphorus on Growth of Azolla.

Student(s) Katherine Fennell

Grade 7 Town Wilton

Norwalk The Montessori Middle School Carolyn Ogden-Stenerson Physical Sciences - Middle School 8th Grade

5521 P8 CS Experimental Evaluation of Techniques for Protecting Users from Malware Attacks

Student(s) Samyukt Kumar

Grade 8 Town Stamford

Norwalk The Montessori Middle School Carolyn Stenerson Physical Sciences - Middle School 8th Grade

5527 P8 1 The Wing and the Wind

Student(s) Nicolas Lob

Grade 8 Town Fairfield

Norwalk The Montessori Middle School Carolyn Stenerson Life Sciences - Middle School 7th Grade

2027 L7 1 How What we Eat for Breakfast Affects Schoolwork, Mood, Wakefulness, and Energy Throughout the Morning.

Student(s) Jonas Lustbader

Grade 7 Town Weston

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Student(s)

Norwich	Norwich Free Academy	Mrs. Jones	Physical Sciences - High School Individual
6016	PS	1 CS FS	Utilizing a Robotic Turning Mechanism to Focus on the Sun in Order to Maximize the Efficiency of a Parabolic Trough Water Heating System
Student(s)		Remington Carle	Grade 11 Town Norwich
Norwich	Norwich Free Academy	Mr. Scanlon	Physical Sciences - High School Individual
6007	PS	ET	Role of Electro-Chemical Double Layer Capacitors in Energy Storage
Student(s)		Ian Dakers	Grade 12 Town Bozrah
Old Saybrook	Old Saybrook Middle School	Mary Looney	Physical Sciences - Middle School Teams
4019	PT	1	Vehicle Energy Conservations
Student(s)		Kiwon Dionne-Jee	Grade 7 Town Old Saybrook
		Alexander Ruth	Grade 7 Town Old Saybrook
Orange	Southern Connecticut Hebrew Academy	Karen Howell	Life Sciences - Middle School Teams
1014	LT	1 BT	Hydration Benefits with Fruits and Vegetables and Effect on Cell Absorption
Student(s)		Devora Hodakov	Grade 7 Town New Haven
		Batsheva Lipsker	Grade 7 Town Stamford
Orange	Southern Connecticut Hebrew Academy	Mrs. Karen Howell	Life Sciences - Middle School Teams
1022	LT	1	Analysis of Omega Oils as Cancer Inhibitors and Antioxidants plus Effect on Cell Bioavailability
Student(s)		Rivka Kantor	Grade 8 Town Westport
		Bracha Hecht	Grade 8 Town Orange
Orange	Southern Connecticut Hebrew Academy	Mrs. Howell	Physical Sciences - Middle School Teams
4010	PT	1 BT	Analysis and Bioavailability of Chemical Dyes Versus Natural Dyes with their Antioxidant Benefits.
Student(s)		Chana Piekarski	Grade 7 Town Hamden
		Esther Caroline	Grade 7 Town New Haven
Orange	Southern Connecticut Hebrew Academy	Mrs. Karen Howell	Life Sciences - Middle School 8th Grade
2543	L8	1 BT	Phytoremediation: Removal of metal pollutants from contaminated soil and effect of chelators
Student(s)		Alex Russell	Grade 8 Town New Haven
Orange	Southern Connecticut Hebrew Academy	Karen J Howell	Life Sciences - Middle School 8th Grade
2507	L8	1 EV	Analysis of Local Watershed and River Contaminated Sediments, and Effect on River and Long Island Sound Waters
Student(s)		Hadassah Sessel	Grade 8 Town Orange
Orange	Southern Connecticut Hebrew Academy	Mrs. Karen Howell	Physical Sciences - Middle School 8th Grade
5547	P8	1	Absorption Rate of Lead Compounds on Simulated Skin and Cells and Effect of Chelators and Heat on Absorption.
Student(s)		Yehoshua Yaffe	Grade 8 Town Guilford
Oxford	Oxford High School	Mr. Kroeze	Physical Sciences - High School Individual
6009	PS	1	Alternative Material and Three-Dimensional Structure to Solar Panel Technology
Student(s)		William Denslow	Grade 11 Town Oxford
Pawcatuck	St. Michael School	Mr. DeNoia	Life Sciences - Middle School Teams
1019	LT	1	The Mighty Houseplant
Student(s)		Kelly Giffault	Grade 7 Town Stonington
		Paige Giffault	Grade 7 Town Stonington
Pawcatuck	St. Michael School	Michael Denoia	Life Sciences - Middle School 8th Grade
2541	L8	1	Killing The Invisible Enemy On Our Hands: Do We Use Soap Or Hand Sanitizer?
Student(s)		Adeline Visscher	Grade 8 Town Mystic

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Student(s)

Plantsville John F. Kennedy Middle School Pepin Physical Sciences - Middle School Teams
4015 PT 1 AT The Windy 500: The Test of Drag and Down Force on Rear Spoilers
Student(s) Emily Maciejewski Grade 8 Town Plantsville
Laura Koba Grade 8 Town Southington

Plantsville John F. Kennedy Middle School Joseph Cipollini Physical Sciences - Middle School 7th Grade
5041 P7 1 Visible or Invisible
Student(s) Delaney Picard Grade 7 Town Southington

Plantsville John F. Kennedy Middle School Mrs. Pepin Life Sciences - Middle School Teams
1017 LT 1 BT The Effects of Global Warming on Marine Life
Student(s) Kimberly Stafko Grade 7 Town Southington
Alexa Maddalena Grade 7 Town Southington

Putnam Putnam Science Academy Hakan Duman Physical Sciences - High School Teams
6513 PST 1 ET Using Environmental Friendly and Cost Effective Ferrofluid Magnetite as an Adsorbing Agent to Efficiently Remove Petroleum Spills from Water Sources and its Commercial Application with a Robot
Student(s) Zekeriya Abacioglu Grade 12 Town Putnam
Bahadir Ozgenturk Grade 12 Town Putnam

Putnam Putnam Science Academy Serdar Haytiyev Physical Sciences - High School Teams
6510 PST 1 Efficient and Practical Approach to Removal of BTEX from Industrial Waste Water by Using Tea Waste
Student(s) Rejepmuhammet Gurbannazarov Grade 10 Town Putnam
Kerem On Grade 10 Town Putnam

Putnam Putnam Science Academy MEHMET YARAMIS Life Sciences - High School Teams
3504 LST 1 The Effects of Watershed Pollution on the Common Inhabitant Fresh Water Plant, Nasturtium officinale
Student(s) Mehmet Karaduman Grade 9 Town Putnam
Mehmet Eygoren Grade 9 Town Putnam
Hacibey Catalbasoglu Grade 9 Town Putnam

Putnam Putnam Science Academy Serdar Haytiyev Life Sciences - High School Teams
3515 LST 1 FS Environmentally Friendly Photodegradation of Aliphatic Pollutants in Water by Using Visible Light Activated Chlorophyll
Student(s) Almas Myrzatay Grade 10 Town Putnam
Selman Avci Grade 10 Town Middletown
Muhammed Kose Grade 10 Town Putnam

Putnam Putnam Science Academy Serdar Haytiyev Physical Sciences - High School Teams
6503 PST 1 FS Effective Removal of BTEX from Industrial Wastewater by Using Banana Peels as an Environmentally Friendly and Low-Cost Bio-Sorbent
Student(s) Serik Tukupov Grade 11 Town Putnam
Vali Gasimov Grade 11 Town Putnam
Humza Ahmed Grade 11 Town Tolland

Redding Joel Barlow High School Katherine Nuzzo Physical Sciences - High School Individual
6076 PS FS Surfactants: Emulsification Effects of Synthetic, Microbial and Plant-Derived Surfactants
Student(s) Morgan Jordan Grade 12 Town Easton

Ridgefield East Ridge Middle School Mrs. Deborah Sullivan Physical Sciences - Middle School Teams
4007 PT 1 Soap Mania
Student(s) Sarah Battipaglia Grade 8 Town Ridgefield
Elisa Jonas Grade 8 Town Ridgefield

Connecticut Science Fair

2012 Finalists

[SchTown] [School] [Teacher]
[Proj#] [FCat] [Finalist] (Project Title)
Student(s)

Ridgefield East Ridge Middle School Mrs. Sullivan Life Sciences - Middle School Teams

1005 LT 1 The Effectiveness of Natural Acne Products vs. Chemical Commercial Products

Student(s) Margaret Comer Grade 8 Town Ridgefield

Gwen Byrne Grade 8 Town Ridgefield

Ridgefield East Ridge Middle School Ms. Sullivan Physical Sciences - Middle School Teams

4002 PT 1 MA Determining Amount Of Sugar, Salt, and Alcohol in a Water Solution with a Laser Pointer

Student(s) Martin Herlihy Grade 8 Town Ridgefield

Brendan Donnelly Grade 8 Town Ridgefield

Shelton Shelton High School Mrs. Dunham Physical Sciences - High School Individual

6066 PS 1 CS Revolutionizing Cancer Treatment: A Simulation of Nanocarriers Using Swarm Intelligence for Targeted Cancer Cells

Student(s) Rigel Mahmood Grade 10 Town Shelton

Shelton Shelton High School Daniel Nazzaro Life Sciences - High School Teams

3522 LST 1 How Radiation Affects Cells

Student(s) Caroline Steadham Grade 9 Town Shelton

Sydney Carter Grade 9 Town Shelton

Johnna Bakalar Grade 9 Town Shelton

Shelton Shelton High School Mr. Nazzaro Physical Sciences - High School Teams

6516 PST 1 CS What is the Fastest Way to Solve a Sudoku Puzzle?

Student(s) Ryan Zuklie Grade 12 Town Shelton

Alex Wicek Grade 12 Town Shelton

Mike Dellolio Grade 12 Town Shelton

Stafford Springs St. Edward School Mrs. Napolitano Physical Sciences - Middle School 7th Grade

5024 P7 1 The Science of Tornadoes

Student(s) Samuel Teerlinck Grade 7 Town Monson

Storrs E. O. Smith High School Robert Pirrie Physical Sciences - High School Individual

6026 PS 1 ET Membranes for Biochemical Separations

Student(s) Paula Chen Grade 11 Town Storrs

Storrs E. O. Smith High School Jon Swanson Life Sciences - High School Individual

3038 LS 1 Propagation and Mass Changes of Coral under Different Circumstances

Student(s) Timothy Nolan Grade 10 Town Willington

Stratford Harry B. Flood Middle School Mr. David Gorski Physical Sciences - Middle School 8th Grade

5553 P8 1 Measuring Temperature with a Violin

Student(s) Autumn Wagner Grade 8 Town Stratford

Stratford St. Mark School Phillip Flynn Physical Sciences - Middle School 7th Grade

5012 P7 1 Go With The Flow: Applying Darcy's Law to the Flow of Groundwater

Student(s) Gabriella Larizza Grade 7 Town Stratford

Stratford St. Mark School Mr. Phil Flynn Physical Sciences - Middle School 7th Grade

5022 P7 1 MA ET A Bright Idea: Comparing the Efficiency of Incandescent, CFL, and LED Light Bulbs

Student(s) Megan Robertson Grade 7 Town Stratford

Trumbull Christian Heritage School Dan Cote Physical Sciences - High School Individual

6053 PS MA The general equation of the sum of power series

Student(s) Xiaofei Yu Grade 11 Town Shelton

Connecticut Science Fair

2012 Finalists

[SchTown] [School] [Teacher]
 [Proj#] [FCat] [Finalist] (Project Title)
 Student(s)

Trumbull St. Catherine of Siena School Mrs. Kelly Collins Life Sciences - Middle School 7th Grade
 2020 L7 1 Should We Be Going Bananas?! The Study of Ocean and Freshwater Acidification and its Harmful Effect on the Shells of Aquatic Organisms and the Evaluation of a Banana-Derived Additive to Reduce It.
Student(s) Abigail Kelly **Grade 7** **Town** Shelton

Trumbull St. Catherine of Siena School Mrs. Kelly Collins Physical Sciences - Middle School 8th Grade
 5512 P8 1 Cold Pack Chemistry
Student(s) William Quigley **Grade 8** **Town** Trumbull

Watertown The Taft School Mr. Michael McAloon Life Sciences - High School Individual
 3062 LS 1 MA From Shape Recognition to Multi-Calculus Thinking: Study of Geometric Perception and Spatial Cognition in Early Alzheimer's Disease Patients
Student(s) Xinhe Zheng **Grade 11** **Town** Watertown

West Hartford American School for the Deaf Mary Laporta Life Sciences - High School Teams
 3501 LST 1 Beluga Behavior Study
Student(s) Dazjahnique Parker **Grade 11** **Town** Ansonia
Faye Frez-Albrecht **Grade 11** **Town** Canton
Lynette Saucier **Grade 11** **Town** Bristol

Westbrook Westbrook Middle School Mrs. Lepore Physical Sciences - Middle School 7th Grade
 5013 P7 1 How is a Soils Permeability Related to its Grain Size Distribution?
Student(s) Liam Collins **Grade 7** **Town** Westbrook

Westport Staples High School Dr. Nicholas Morgan Physical Sciences - High School Individual
 6033 PS 1 NGC 2194: Clues to Stellar Evolution
Student(s) Kim Adler **Grade 11** **Town** Westport

Westport Staples High School Dr. Michele Morse Life Sciences - High School Individual
 3033 LS MA Chaos in Bacterial Growth with Sinusoidal Temperature Cycles
Student(s) Michael Menz **Grade 11** **Town** Westport

Westport Staples High School Alfred J. Scheetz Life Sciences - High School Individual
 3046 LS 1 BT Optogenetic Interrogation of Prefrontal Cortex Dopamine D1 Receptor-Containing Neurons as a Technique to Restore Timing: A Novel Approach to Treat Prefrontal Disorders
Student(s) John Solder **Grade 12** **Town** Westport

Westport Staples High School Dr. Nick Morgan Life Sciences - High School Individual
 3037 LS ET The Application of the Photosynthetic Hydrogen Production of *C. reinhardtii* in Hydrogen Fuel Cells
Student(s) Jay Tsai **Grade 12** **Town** Westport

Wilton Middlebrook School Robert Moya Physical Sciences - Middle School 7th Grade
 5019 P7 1 ET Improving Efficiency of Solar Energy
Student(s) Kevin Moya **Grade 7** **Town** Wilton

Wilton Middlebrook School Norman Kendra Physical Sciences - Middle School 8th Grade
 5516 P8 1 Material Density vs. Angle of Refraction
Student(s) Mishil Nana **Grade 8** **Town** Wilton

Windsor Madina Academy Aisha Seyal Life Sciences - Middle School 8th Grade
 2527 L8 1 EV SRP BT Manufacturing and Biodegrading Bioplastics: Observing the speed of biodegradation of potato, rice, tapioca and corn starch based plastics.
Student(s) Muhammad Ali **Grade 8** **Town** Windsor

Connecticut Science Fair

2012 Finalists

[SchTown]	[School]	[Teacher]	[Project Title]
[Proj#]	[FCat]	[Finalist]	Student(s)
Windsor	Madina Academy	Aisha Seyal	Physical Sciences - Middle School 8th Grade
5530	P8	1 AT	The design and construction of a superlative HHO generator and the effect of complex carbohydrates on the output of hydroxide.
Student(s)		Abdulqadeer Bin Sajid	Grade 8 Town Bristol
Windsor	Madina Academy	Aisha Seyal	Life Sciences - Middle School 7th Grade
2017	L7	1 BT	Can homeopathic solutions inhibit the growth of Group A Streptococcus bacteria?
Student(s)		Amira Elfeky	Grade 7 Town Simsbury
Windsor	Madina Academy	Aisha Seyal	Physical Sciences - Middle School 7th Grade
5033	P7	1 ET SRP	Charge your device in a power blackout: Effective methods to generate electricity from heat and solar energy using thermoelectric generators
Student(s)		Osama ElSherbini	Grade 7 Town Windsor
Windsor	Madina Academy	Aisha Seyal	Physical Sciences - Middle School 7th Grade
5020	P7	SRP	Back to the Future with Mud Brick and Clay Egyptian Houses and Wooden American Houses: Comparing cooling and heating methods, structure stability, and cost differences
Student(s)		Malak Enayetallah	Grade 7 Town Tolland
Windsor	Madina Academy	Aisha Seyal	Life Sciences - Middle School 8th Grade
2515	L8	EV SRP	Polypropylene Oil Magnets: A comparison of this novel approach using ferrofluids to established methods of oil spill removal including OEMs, woodchips, hay, and compost.
Student(s)		Ayesha Khan	Grade 8 Town Windsor
Windsor	Madina Academy Upper School	Iman Al-Naggar	Life Sciences - High School Teams
3513	LST	1	Agave: The Future of Biofuels A Comparison of the Biofuel Potential of Agave Americana Grown with Different Amounts of Water
Student(s)		Aasiya Ahmed	Grade 9 Town Windsor
		Usra Qureshi	Grade 9 Town Windsor
Windsor	St. Gabriel School	Margaret Rosa	Life Sciences - Middle School 8th Grade
2513	L8	BT	Out With Indigestion
Student(s)		Kirsten Mossberg	Grade 8 Town Windsor
Woodbridge	Amity Regional High School	Deborah Day	Life Sciences - High School Individual
3078	LS	1	The Prevalence of Family History of Psychiatric Conditions Among Individuals with Optimal Outcomes and Individuals who have Retained Their Autism Spectrum Disorder Diagnoses.
Student(s)		Andrew Chen	Grade 11 Town Bethany
Woodbridge	Amity Regional High School	Deborah Day	Physical Sciences - High School Individual
6006	PS	CS	Effect of Indexing String Length On Speed and Memory Usage for Digital Karyotyping Query Algorithms
Student(s)		Jordan Henck	Grade 11 Town Woodbridge
Woodbridge	Amity Regional High School	Deborah Day	Life Sciences - High School Individual
3059	LS	EV	The effect of different Northern Catalpa Bark chemicals on Pogonomymex
Student(s)		Brian Liang	Grade 11 Town Bethany
Woodbridge	Amity Regional High School	Deborah Day	Life Sciences - High School Individual
3054	LS	1	Photodynamic Therapy for Accelerated Wound Healing
Student(s)		Shiyu Zhuang	Grade 11 Town Orange