



Connecticut Science Fair

Quinnipiac University

March 11 - 15, 2008

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

Finalists

All finalists are required to be at their project on Thursday morning for the Final Judging which starts at 9am sharp. Be sure to acknowledge by going to the CHECK-IN page.

[SchTown]	[School]	[Teacher]	[Proj#]	[FCat]	[Finalist]	[Project Title]	Student(s)	Grade	Town
Avon	Talcott Mountain Academy	Mr. Meredith	5013	P7	1 M	Natural Spirals and Mathematical Series	Emily E. Baczyk	Grade 7	Town Avon
Avon	Talcott Mountain Academy	Mr. Meredith	5022	P7	EN	Look Ma, No Batteries	Michael A. Basmajian	Grade 7	Town Torrington
Avon	Talcott Mountain Academy	Jonathan Craig	2527	L8	1	Backyard Antibiotics	Brent A. Murcia	Grade 8	Town Glastonbury
Avon	Talcott Mountain Academy	Mark Meredith	5540	P8	1 M CS	Determining Thermal Conductivity	Alexander Rainville	Grade 8	Town Granby
Bozrah	Fields Memorial School	Evelyn Brown	2533	L8	1	Hay Quality	Jennifer J. Chick	Grade 8	Town Bozrah
Bozrah	Fields Memorial School	Mrs. Evelyn Brown	5547	P8	1	Suspension Bridge Strength	Ian D. Dakers	Grade 8	Town Bozrah
Bozrah	Fields Memorial School	Mrs. Evelyn Brown	5047	P7	1	Will You Get Wetter if You Walk or Run in a Rainstorm?	Matthew J. Tatro	Grade 7	Town Bozrah
Brewster	Brewster High School	Ed Schmidt	3045	LS	1 AT	Mudslide Mitigation Protocols for Southern California using Enhanced Germination Technologies in Larrea tridentata	Dorothy M. Klein	Grade 12	Town Brewster
Brewster	Brewster High School	Mr. Edward Schmidt	3055	LS	1	A Novel Extraction of the Pyrrolizidine Alkaloids from Petasites hybridus to Create an Anti-Spasmodic Supplement for Equine COPD	Alexandra L. Mcle	Grade 12	Town Brewster
Bridgeport	Bassick High School	Donna Koolis	3523	LST	1	Decomposing Leaves	Escarlin Ramirez Nery J. Alfaro	Grade 10 10	Town Bridgeport Bridgeport
Bridgeport	Bridgeport Aquaculture School	Mr Shadle	3525	LST	1	A Comprehensive Ecological Baseline Analysis of an Isolated Marsh Grass Ecosystem for the Implementation of a Restoration Program	Joshua S. Villafane Sydney M. Williams Brandon A. Simmons	Grade 12 12 12	Town Bridgeport Bridgeport Bridgeport
Bridgeport	Bridgeport Hope School	Elizabeth Deshotel	1018	LT	1	Bird Color Preference	Bonne-Elise Y. Deshotel Alissa S. Montanaro	Grade 8 8	Town Bridgeport Bridgeport

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Bridgeport Bridgeport Hope School Elizabeth Deshotel

1013	LT	1	Do Stereotypes Influence People?
Student(s) Yenshim J. Watanabe			Grade 8
			Town Bridgeport
			Emiko E. Corley
			8
			Bridgeport

Brookfield St. Joseph School Mrs. Childs

2023	L7	1	The Effects of Temperature on the Curling of a Rhododendron Leaf
Student(s) Ryan D. Kerr			Grade 7
			Town Danbury

Brookfield St. Joseph School Mrs. Belden

2013	L7	1	Testing Portable Techniques for the Sterilization of Water
Student(s) Austin R. Shepard			Grade 7
			Town Brookfield

Burlington Har-Bur Middle School Andrew Komar

5523	P8	1 EN	Which Tree Type Common to Connecticut Produces the Most Heat Energy (BTU) per Volume?
Student(s) Mike Duba			Grade 8
			Town Harwinton

Danbury Broadview Middle School Edie Mullally

1010	LT	1	Usual Oral Flora
Student(s) Garrett A. Rose			Grade 8
			Town Danbury
			Nicholas P. Ciliberto
			8
			Danbury

Danbury Danbury High School Mr. Craig Smigala

6018	PS	CS	In Pursuit of the Wolf: A Quantitative Analysis of Tones on the Violin
Student(s) Benjamin S. Altman			Grade 9
			Town Danbury

Danbury Danbury High School John Larosa

6026	PS	1	Phytonutrients Ability to Neutralize Free Radicals and Act as Antioxidants
Student(s) Allie Bukowski			Grade 9
			Town Danbury

Danbury Danbury High School Larosa

6053	PS	1	The Effects of Temperature on the Hardenability of Metals
Student(s) Joshua Goldenberg			Grade 10
			Town Danbury

Danbury Danbury High School Mrs. La Rosa

3018	LS	1	The Effects of Potent Toxins on the Emergence and Hatching Development of Artemia.
Student(s) Nicole Goodsell			Grade 11
			Town Danbury

Danbury Danbury High School Mrs. Larosa

6049	PS	1	The Creation of Emulsion Between Oil-in-Water Surfactants
Student(s) Shadman Karim			Grade 10
			Town Danbury

Danbury Rogers Park Middle School Mrs. Zaleta

1008	LT	1	The Ultraviolet Ultimatum: Do or Die. The Effects of Ultraviolet Radiation on Brassica rapa and Trionfo violetto
Student(s) Michele E. Mikhitarian			Grade 8
			Town Danbury
			Evan T. Lunt
			8
			Danbury

Danbury St. Gregory The Great School Mrs. Josephine Ferry

1005	LT	1	TRY TO CATCH YOUR BREATH! How much CO2 is in you?
Student(s) Christie A. Colucci			Grade 7
			Town Danbury
			Jena M. Mazzucco
			7
			Danbury

Danbury St. Joseph School Ms. Catherine Vill

5556	P8	1 AT A EN	Convert Waste to Energy
Student(s) Narmien Haddad			Grade 8
			Town Danbury

Danbury St. Joseph School Miss Catherine Ville

2504	L8	1 A	Fermentation of Fruits to Produce Ethanol Bio-Fuel
Student(s) Lauren C. Switzer			Grade 8
			Town Danbury

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East Lyme East Lyme High School Dr. James Michaelson

3022 LS 1 M Development of a Computer Model of Cancer Metastasis to Identify Screening Strategies for Reducing the Lethal Burden of Malignant Melanoma

Student(s) Priya G. Ranade **Grade** 11 **Town** East Lyme

Fairfield Fairfield Warde High School Ms. Faggella

6004 PS M A Novel Exploration of the Theory of Calculus and its Applications to Circular Motion

Student(s) Evan N. Feinberg **Grade** 11 **Town** Fairfield

Fairfield Fairfield Warde High School Ms. Faggella

3013 LS 1 Development of a Therapeutic Nanostructured Smart Gel: A Novel Approach to Chronic Pain Management

Student(s) Anita Gade **Grade** 11 **Town** Fairfield

Fairfield Fairfield Warde High School Patrice Faggella

3042 LS 1 The Feed Forward Model Contrast Invariance and Variability in Synaptic Conductance

Student(s) Daniel B. Halpert **Grade** 12 **Town** Fairfield

Fairfield Hillel Academy Mrs. Karen Howell

2020 L7 1 Analysis of Spice Curcumin -- Antioxidant, Antibacterial Agent and Effect on Cell Absorption

Student(s) Micol L. Bedarida **Grade** 7 **Town** New Haven

Fairfield Hillel Academy Mrs. Karen Howell

2538 L8 1 A Analysis of Wetland Dieback of Marsh Spartina Alterniflora on Long Island Sound

Student(s) Sarah D. Kennedy **Grade** 8 **Town** Fairfield

Fairfield Hillel Academy Mrs. Karen Howell

4004 PT 1 AT A Quantitative Analysis of Cellulosic Biofuels and Their Effect on Environment

Student(s) Daniel Salem **Grade** 8 **Town** New Haven
Benjamin M. Ellenberg 8 Easton

Fairfield Hillel Academy Mrs. Karen Howell

1012 LT 1 Analysis of Energy Beverages & Caffeine's Effect on Cell Hydration & Nutrient Bioavailability

Student(s) Jason L. Wiener **Grade** 7 **Town** New Haven
Yaakov Breiner 7 Bridgeport

Fairfield Holy Family School Mrs. Kelley Collins

2016 L7 1 Recycling Greywater

Student(s) Xiomara M. Galeano **Grade** 7 **Town** Bridgeport

Fairfield Holy Family School Mrs. Kelley Collins

2501 L8 ees Solar Power and Future Tehnology

Student(s) Christopher J. Rodriguez **Grade** 8 **Town** Bridgeport

Fairfield Our Lady of Assumption School Mrs. Almeida

2509 L8 1 A Quantitative and Qualitative Study on the Effects of Acid Rain on the Soil Organism Lumbricus Terrestris

Student(s) Christopher Costa **Grade** 8 **Town** Trumbull

Fishers Island Fishers Island School Mrs. Carol Giles

6065 PS 1 The Slot Effect, Scientific Fact or Sailor's Myth

Student(s) Emily W. Cummin **Grade** 12 **Town** Mystic

Glastonbury Cogswell Home School Fred Cogswell

2542 L8 1 Investigating Alternatives to Chemical Insecticides to find Environmentally Safe Ant Repellents

Student(s) Jami R. Cogswell **Grade** 8 **Town** Glastonbury

Glastonbury Glastonbury High School Mrs. Veronica Hanlon

3003 LS 1 Effect of Food-grade Chemicals on MRSA

Student(s) Amoolya Narayanan **Grade** 9 **Town** Glastonbury

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Glastonbury Glastonbury High School Veronica Hanlon

6509 PST 1 Stains Away!

Student(s) Rachel C. Patton **Grade** 9 **Town** Glastonbury
Victoria A. Hervieux 9 Glastonbury

Greens Farms Greens Farms Academy Mathieu J. Freeman

6001 PS CS Automated Minesweeper for Military Applications

Student(s) William B. Buchanan III **Grade** 12 **Town** New Canaan

Greens Farms Greens Farms Academy Dr. Mathieu J. Freeman

6033 PS AT Feasibility of Low Temperature Proton Exchange Membrane Fuel Cells

Student(s) Michael A. Pavlis **Grade** 12 **Town** Fairfield

Greenwich Greenwich High School Andrew Bramante

3017 LS A Detection of Ozone Pollution Using Greenwich, CT Eastern White Pine

Student(s) Jessica Blanton **Grade** 11 **Town** Old Greenwich

Greenwich Greenwich High School Andrew Bramante

3037 LS 1 Finding the Optimal Conditions for the Permeation of Insulin through Porcine Intestine and Poultry Skin

Student(s) Eliana N. Carmona **Grade** 11 **Town** Greenwich

Greenwich Greenwich High School Andrew Bramante

3058 LS 1 Comparison of Hexoses and Pentoses in Production of N-butanol by *S. cerevisiae* fermentation, *C. acetobutylicum* A.B.E. process, and cocultures of *C. sp.*

Student(s) Ryan Y. Chou **Grade** 12 **Town** Riverside

Greenwich Greenwich High School Andrew Bramante

6506 PST 1 A New Artificial Turf: Is it Environmentally Friendly?

Student(s) Courtney A. Fogwell **Grade** 12 **Town** Greenwich
Likhitha R. Aidunuthala 9 Greenwich

Greenwich Greenwich High School Andrew Bramante

6064 PS 1 Laser-Induced Motion of A Quantum Dot Colloid

Student(s) George J. Hansel **Grade** 12 **Town** Old Greenwich

Greenwich Greenwich High School Andrew Bramante

3021 LS 1 A Tracing the Migration of Pesticides Through the Production of Southwestern Connecticut Honey

Student(s) Eliza H. McNitt **Grade** 11 **Town** Greenwich

Greenwich Greenwich High School Andrew Bramante

6060 PS CS Detecting Compromised Accounts in Instant Message Traffic

Student(s) Michael G. Miller **Grade** 12 **Town** Old Greenwich

Greenwich Greenwich High School Andrew Bramante

3023 LS ees The Harmful Effects of Ski Wax on Human Health and the Environment

Student(s) William C. Newberry **Grade** 10 **Town** Riverside

Greenwich Greenwich High School Andrew Bramante

6003 PS 1 A ees Energy Extraction from Human Biowaste at Reduced Temperatures

Student(s) Michael D. Tom **Grade** 11 **Town** Greenwich

Greenwich Greenwich High School Andrew Bramante

3048 LS 1 Tear Content May Predict Vulnerability to Stress Related Disease

Student(s) Sophie H. Vos **Grade** 11 **Town** Riverside

Greenwich Stanwich School Mr. Fletcher

4015 PT 1 CS Physics Simulations in Computer Science

Student(s) Arthur D. Berman **Grade** 8 **Town** Riverside
Alexander T. Ertel 8 Old Greenwich

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Greenwich Stanwich School Mr. Fletcher
6503 PST 1 EN Relating Radiation and the Table of Isotopes to Cold Fusion
Student(s) **Suzanne E. Drennen** Grade 9 Town Greenwich
Kevin Scanlan 9 Greenwich

Guilford E.C. Adams Middle School Cory Slifstein
2012 L7 1 The Effect of Time on 1%, 2%, and 4% Cumberland Farm's Milk
Student(s) **Melanie L. Groff** Grade 7 Town Guilford

Guilford E.C. Adams Middle School Mr. Richard Chocolate
2017 L7 1 Plant Germination Without Soil
Student(s) **Brian D. Marquis** Grade 7 Town Guilford

Guilford Guilford High School Mr. Cuddy
6009 PS 1 AT Building and Testing an Inexpensive PCR Machine
Student(s) **Alan P. Weiner** Grade 10 Town Guilford

Hamden Hamden Middle School Greg Colonese
5524 P8 1 Rocket Aerodynamics and Launch Angles
Student(s) **Anthony J. Papale** Grade 8 Town Hamden

Hamden Sacred Heart Academy Pamela Brownell
6512 PST 1 The Affect of Temperature on the pH of Artificial Sweeteners
Student(s) **Rose K. Cersonsky** Grade 10 Town Oxford
Roberta N. Delvy 10 Derby

Hamden Sacred Heart Academy Ms. Brownell
3513 LST 1 The Effects of Everyday Beverages on Composite Fillings
Student(s) **Emma Messore** Grade 10 Town Hamden
Kyra R. Munzenmaier 10 Wallingford

Hamden Sacred Heart Academy Mrs. Brownell
3510 LST 1 The Effect of Water Pollution on Plant Growth
Student(s) **Colleen E. Roddy** Grade 10 Town West Haven
Christina D'Agostino 10 Meriden

Kensington St. Paul School James Lundebjerg
5006 P7 1 Wind Energy
Student(s) **Kristen B. Lundebjerg** Grade 7 Town Berlin

Madison Our Lady of Mercy School Rosalie Zonder
4003 PT 1 Which Truss do you Trust
Student(s) **Christopher J. Muckle** Grade 8 Town Madison
Troy M. Hagan 8 Madison

Manchester East Catholic High School Ms. Lesa Milas
6021 PS 1 AT A ees Use of Seashells to Detoxify Lead-Contaminated Effluent and Groundwater
Student(s) **Theresa A. Oei** Grade 9 Town Hebron

Manchester St. Bridget School Mrs. Kim Maysonet
5014 P7 1 Ballistic Pendulum
Student(s) **Brian T. Bendernagel** Grade 7 Town South Windsor

Milford West Shore Middle School Dr. Mary-Ellen Coloski
4006 PT 1 Hovercraft Mania
Student(s) **Kayla M. O'Connor** Grade 7 Town Milford
Sabrina D. Hall 7 Milford

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Mystic Mystic Middle School Mrs Kimberly Brandt
5537 P8 1 AT CS The Mythbox: A Portable DVR
Student(s) **Michael A. Ciociola** Grade 8 Town Stonington

New Canaan New Canaan High School Daniel Eichinger
3034 LS 1 The Effect of Short-Chain Fatty Acids on Gene Expression in Entamoeba Histolytica
Student(s) **Ilya B. Belopolski** Grade 12 Town New Canaan

New Haven High School in the Community Todd Solli
6011 PS ees Energy Output of Different Fuel Mixtures
Student(s) **Joshua I. Cohen** Grade 12 Town New Haven

New Haven High School in the Community Todd Solli
3527 LST 1 Water Pollution in the City of New Haven. Good or Bad?
Student(s) **Katherine A. Nichols Botto** Grade 12 Town New Haven
Carmella H. Nichols Botto 12 New Haven

Newington St. Mary School Mrs. Deborah Giantonio
5534 P8 1 How do the Various Properties of a Truss Affect its Ability to Carry Loads?
Student(s) **Michael A. Mahoney** Grade 8 Town Newington

Newtown St. Rose Of Lima School Mrs. Dimon
2539 L8 1 Blooming Biofuel
Student(s) **Matt M. Ryan** Grade 8 Town Newtown

North Haven North Haven High School Marilynn Kramar
3041 LS 1 M CS A Numerical Model of Late-Spiking Neurons
Student(s) **Fiona W. Wood** Grade 11 Town North Haven

Norwalk Brien McMahon High School Linda Paganini
3509 LST 1 Will the Increasing CO2 Levels Hinder the Shellfish Ability to Produce Their Hard and Produdproductive Shells?
Student(s) **Spencer L. Horton** Grade 12 Town Ridgefield
Marianna V. Cordovano 12 Rowayton

Norwalk West Rocks Middle School Mrs. Sue DeLong
2549 L8 1 The Mazing Race (The Study of Small Animal Behavior) To Understand Small Animal Memory Ability Using a Female Hamster Navigating Through Several Mazes With Several Different Variables.
Student(s) **William H. Atkin** Grade 8 Town Norwalk

Norwich Norwich Free Academy Mr. Croteau
3529 LST 1 AT A Population Spread and Impact of Galerucella Beetles
Student(s) **Zachary S. Banning** Grade 12 Town Bozrah
Jessica S. Banning 10 Bozrah

Norwich Norwich Free Academy Mr. Roy Wentworth
3512 LST 1 M The Impact of Park Clearing Along the Yantic River on Benthic Macroinvertebrate Populations: Part II
Student(s) **Samantha M. Schoepfer** Grade 10 Town Bozrah
Heather N. Leask 10 Bozrah

Oxford Oxford High School Mr. LaBanca
6017 PS 1 EN ees Gel Point Optimization of Refined Biodiesel
Student(s) **Louis M. Mandeville** Grade 9 Town Oxford

Pawcatuck St. Michael School Mr. Petkis
5024 P7 1 Auto vs. Manual: Do the Auto Settings of a Digital Camera Take the Best Photos?
Student(s) **Samantha C. Duignan** Grade 7 Town Pawcatuck

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Pawcatuck St. Michael School Bernard Petkis

2029 L7 1 Light Effects

Student(s) Nicole G. Scola **Grade** 7 **Town** Westerly

Pawcatuck St. Michael School Bernie Petkis

2037 L7 1 A Is It Possible for Soil Contaminated With Oil to Return to Its Original State?

Student(s) Jacqueline Wyper **Grade** 7 **Town** Stonington

Plantsville J.F. Kennedy Middle School Mrs. Boulanger

2517 L8 1 Phonics Phone Phenomenon 2: Articulation Action

Student(s) Emily A. Durocher **Grade** 8 **Town** Plantsville

Plantsville J.F. Kennedy Middle School Mrs. Christine Boulanger

1019 LT 1 Pollution Solution?

Student(s) Jenna Graziano
Margaret D. Feltz **Grade** 8
8 **Town** Southington
Southington

Plantsville J.F. Kennedy Middle School Mrs. Christine Boulanger

1015 LT 1 The Scoop on Soil

Student(s) Amanda M. Snow
Sarah X. Feltz **Grade** 8
8 **Town** Plantsville
Southington

Putnam Putnam Science Academy Ahmet Cakar

6507 PST 1 AT ees Better Fuel or Better Oxidizer?

Student(s) Semih Eren
Muhammed Y. Mergen **Grade** 11
11 **Town** Putnam
Putnam

Putnam Putnam Science Academy Ahmet Cakar

3532 LST 1 Natural Toothbrush Against Dental Bacteria

Student(s) Selman Kara
Burak C. Gunay **Grade** 11
11 **Town** Putnam
Putnam

Putnam Putnam Science Academy Ahmet Cakar

6051 PS 1 M Selection with Perfect Privacy by using RSA Encryption

Student(s) Mehmet Sencan **Grade** 10 **Town** Putnam

Putnam Putnam Science Academy Ahmet Cakar

3519 LST 1 ees Yeast to Produce Ethanol Fuel By Using Different Feedstocks

Student(s) Selman Temel
Ramis Unsur
Efe E. Tuncer **Grade** 10
10
10 **Town** Putnam
Putnam
Putnam

Ridgefield East Ridge Middle School Pamela Gooch

5003 P7 ees Conserving Energy- How Aluminum Foil Can Deter Global Warming, Save Time by the Toaster, and much more...

Student(s) Stanley Cai **Grade** 7 **Town** Ridgefield

Sandy Hook Newtown High School Mr. Canfield

6027 PS 1 EN In Vitro Enzyme-Catalyzed Conversion of Carbon Dioxide to Methanol.

Student(s) Dayton T. Horvath **Grade** 12 **Town** Newtown

Sandy Hook Newtown High School Mr. Canfield

6039 PS 1 Neural Network Robotic Sensory Control

Student(s) Rebecca A. Reed **Grade** 12 **Town** Newtown

Southington DePaolo Middle School Trish Kenefick

5012 P7 1 Wild Wind Tunnel

Student(s) Bryson Teel **Grade** 7 **Town** Southington

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Stafford Springs St. Edward School Mrs. Hopkins

5541	P8	1	The Effect of Heat Transfer Mediums on Solar Energy Absorption
Student(s) Chet J. Jambora			Grade 8 Town Stafford Springs

Storrs E.O. Smith High School Jon Swanson

3061	LS	1	The Effects of Increased Nitrates on the Growth of Hard and Soft Coral
Student(s) Alyssa Cowles			Grade 10 Town Storrs

Storrs E.O. Smith High School Jon Swanson

3001	LS	A	The Effectiveness Of Supplemental Heterotrophic Feeding As Measured By Colony Growth In The Stony Coral Galaxea Facicularis
Student(s) Ariana Levin			Grade 10 Town Storrs

Stratford Flood Middle School Mr. David Gorski

2529	L8	1 A	It's a Jungle Out There? What Effect Does Increasing the Atmospheric CO2 Level have on Plant Growth?
Student(s) Kevin M. Rahrig			Grade 8 Town Stratford

Trumbull St. Catherine of Siena School Mrs. Shickler

5535	P8	1 M AT EN	Gyromills; Jetstream Power Plants
Student(s) Adam C. Kee			Grade 8 Town Trumbull

Trumbull St. Catherine of Siena School Mrs. Shickler

5028	P7	1 A	Radiant Energy, Variations among Fixed Solar Arrays and Solar Tracking Systems
Student(s) Kyle T. Ryan			Grade 7 Town Trumbull

Watertown The Taft School William Kron

6062	PS	1 M CS	OCR: Handwriting Recognition
Student(s) Matthew A. Petroff			Grade 9 Town Cheshire

West Hartford Solomon Schechter Day School Mr. David Girolamo

1017	LT	1	Bacteria: Live Free or Die Hard
Student(s) Joshua Benadiva David Pearl			Grade 7 Town Farmington 7 Manchester

West Hartford Solomon Schechter Day School Mr. David Girolamo

5528	P8	M	Which Offensive Baseball Statistic Best Predicts Run Production?
Student(s) Uri T. Bilmes			Grade 8 Town West Hartford

West Hartford St. Brigid School Jennifer Bernaiche

2543	L8	1 A	A Slick Situation
Student(s) Gina C. Bettencourt			Grade 8 Town West Hartford

West Hartford St. Timothy Middle School Ms. McNamee

4009	PT	1	Track the Traction
Student(s) Sarah C. Gillespie Anne Higgins			Grade 7 Town Manchester 7 West Hartford

Westbrook Westbrook Middle School Cathi A. Lepore

5002	P7	1 AT EN	Wind Turbines - What is the Best Blade Angle?
Student(s) Kathryn H. Cyr			Grade 7 Town Westbrook

Westbrook Westbrook Middle School Ms. Scanlon

5526	P8	1	Paints For Your Porch: Impact of Weather on Paint
Student(s) Sarah A. Luft			Grade 8 Town Westbrook

Westbrook Westbrook Middle School Cathi Lepore

2002	L7	1	The Effect of Different Sugars on Yeast Activity
Student(s) James E. Porrell			Grade 7 Town Westbrook

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Westbrook Westbrook Middle School Heather Scanlon

2518 L8 1 Is A Carb A Carb? (Carbohydrate Counting vs. The Glycemic Index)
Student(s) **Olivia C. Tempesta** Grade 8 Town Westbrook

Westport Bedford Middle School Susan Cyrulik/Kim Dolan

2548 L8 1 The Effect of Different Water Types on Plant Growth
Student(s) **Catherine A. Clair** Grade 8 Town Westport

Westport Staples High School Dr. AJ Scheetz

3006 LS 1 Selection of Optimal 5' Exons to Enhance pre-mRNA Splicing
Student(s) **Antonella C. Lisanti** Grade 12 Town Westport

Westport Staples High School Dr. A.J. Sceetz

3020 LS 1 Acceleration of Angiogenesis through Novel Protein Delivery Systems
Student(s) **Andrew F. Shenoy** Grade 12 Town Westport

Westport Staples High School Dr. AJ Scheetz

6059 PS 1 M CS Providing a Detect-and-Verify Framework for Specific Face Detection
Student(s) **Zachary I. Weiner** Grade 12 Town Westport

Westport Staples High School Dr. A.J. Sceetz

6057 PS 1 Analyzing A Nano-scale Patterned Material for Effective Buffer Applications in Photonic Integrated Circuits
Student(s) **Garrett J. West** Grade 12 Town Westport

Willington Hall Memorial School Laura Rodriguez

5048 P7 EN Colorful Solar Power
Student(s) **Ethan A. Baker** Grade 7 Town Willington

Willington Hall Memorial School Mrs. Rodriguez

5031 P7 EN Are Biofuels Truly Better For Our Environment Than Gasoline?
Student(s) **Gabriel Rodriguez** Grade 7 Town Willington

Willington Hall Memorial School Mrs. Laura Rodriguez

5505 P8 1 AT Putting Wind to Work: The Efficiency of Windmill Blades
Student(s) **Erica N. Tremko** Grade 8 Town Willington

Wilton Middlebrook School Susan Lash

1009 LT 1 What Triggers Short-Term Memory?
Student(s) **Paige J. Wallace** Grade 7 Town Wilton
Ashley L. Bascom 7 Wilton

Windsor Creative Home school Mrs. Aisha Khan

2010 L7 1 AT ees Sugar Powered Future: Constructing an Alkaline Fuel Cell and Operating it with Different Biofuels to Increase Voltage Output
Student(s) **Zainab Khan** Grade 7 Town Windsor

Windsor Home School Ambreen Qureshi

2007 L7 1 Challenges to Pakistani Agriculture: Growing Plants in Salt Affected Soil
Student(s) **Marrum Z. Qureshi** Grade 7 Town Windsor

Windsor Madina Academy Rasha Amir

5019 P7 1 Solar Cooking
Student(s) **Humza Ahmed** Grade 7 Town Windsor

Windsor Madina Academy Mehwish Amin

2540 L8 1 What's Eating You?
Student(s) **Yamine A. Ali** Grade 8 Town Windsor

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Windsor St. Gabriel School Meg Rosa

4016 PT 1 Solar Cell Optimization

Student(s) Andrew M. Stephens
Mark A. Mossberg

Grade 8
8 **Town** Windsor
Windsor

Woodbridge Amity Regional High School Young-Wook Lee (Father)

6061 PS 1 AT Development of a Radio Controlled Flapping Wing Micro Air Vehicle

Student(s) Simon J. Lee

Grade 9 **Town** Orange

Woodbridge Amity Regional High School Ms. Deborah Day

6043 PS 1 A The Distribution of Environmentally Sensitive Metals in the New Haven Green

Student(s) Jiaqi Liu

Grade 9 **Town** Orange

Woodbridge Amity Regional High School Ms. Deborah Day

3059 LS 1 The Effectiveness of Neurological Pitch Memory Using a Computerized Model

Student(s) Ishan Sinha

Grade 10 **Town** Orange

Woodstock Woodstock Middle School Mrs. Carter

2028 L7 1 How Different Substances Affect the Oxidation of Fruits.

Student(s) Sarah L. Cook

Grade 7 **Town** Woodstock

Woodstock Woodstock Middle School Christine Carter

5023 P7 1 The Effect of pH on Voltage Produced in Batteries (Homemade Batteries)

Student(s) Casandra M. Guilani

Grade 7 **Town** Woodstock

Woodstock Woodstock Middle School Christine Carter

5041 P7 1 How Strong Are Nylon Fishing Lines and Why Are They This Strong?

Student(s) Harrison J. Schroder

Grade 7 **Town** Woodstock