



SECOND PLACE WINNER
Fairfax County Regional Science and Engineering Fair
 March 18, 2007

Code	Project Title	Student	School
11-A-1	Effect of Sequestered CO ₂ on a Marine Environment	Megan Silsby	Chantilly High School
TM-A-4	The Effect of Temperature on Oyster Filtration	Paul Lee, Miguel Perez, Patrick Colin Weaver	Robinson Secondary
12-B-1	Effect of Risk-Taking Behavior on Test Performance	Michelle Sawwan	Chantilly High School
09-C-2	The Effect of Whitening Toothpastes on Egg Stains	Tyler Barnes	Westfield High School
TM-C-4	Effect of Vitamin A on Calcium Carbonate Substances	Samantha Kapoor, Brittany Kenah, Charvee Patel	Robinson Secondary
09-D-1	Means to Determine Inheritance Using DNA From Hair	Michael Shallcross	Oakton High School
11-D-1	BUB3 Gene and Its Use in Breast Cancer Metastasis	Nitin Tiwari	Oakton High School
09-E-5	The Effect of Temperature on CO ₂ Absorption	Jacqueline Falatko	Westfield High School
10-E-2	The Effect of Pressure on the Volume of a Gas	Janna Shapiro	Centreville High School
10-E-6	The Effect of Different Metals on Electric Gelatin	Catherine Treyz	Fairfax High School
10-E-10	Effect on Concentration on Yellow-Blue Switcheroo	Taylor Mead	Madison High School
11-E-1	The Effect of Alternative Fats on Chocolate	Christina Williams	Edison High School
11-E-3	Softening Agents and Durability on Pointe Shoes	Emi Grinvalds	Marshall High School
11-E-9	Extracting Caffeine From Different Tea Varieties	Jennifer Tummarello	Madison High School
TM-E-11	Solar Desalination	Sara Almousa, Noha Sherif	Islamic Saudi Academy
TM-E-16	The Hydrogen Fuel Cell Car	Alexander Eljaiek, Jae Park, Marshal Singh	Robinson Secondary
TM-E-22	Effect of Competitive Drinks on the Teeth	Gayathri Cheran, Carolyn Metcalf	Lake Braddock Secondary School
TM-E-23	Effect of Bleaching Agents on Paper Strength/Color	Daniel Abrams, Jullia Addis-Lieser	Madison High School
TM-F-2	Simulation of Planetary Motion	Jason Dunn, David Fox, Neel Singh	Lake Braddock Secondary School
12-G-1	Cloudy Priors for a Bayesian Screening Technique	Jessica Dobis	Thomas Jefferson H S for Science and Technology
09-H-3	Effect of Surface and Lifting Form on Fingerprints	Allyson Buckmeier	Chantilly High School
11-H-1	Building a More Efficient Photovoltaic Array	Rebecca Willmott	Langley High School
TM-H-9	The Effect of Weight on Adhesives	Daniel Joseph, Jonathan Mann, Jonathan Pilcher	Hayfield Secondary
09-I-1	The Effect of Sound Stop Material Type on dB Heard	Spencer King	Oakton High School
10-I-5	Simulating a Car Crash	Matthew Fuqua	West Potomac High School



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11-I-2	Effect of Underwater Shock on Submerged Cylinders	Steven Bruder	Robinson Secondary
11-I-7	Combating Aircraft Wing Corrosion	Stephanie D'Souza	Robinson Secondary
11-I-9	High Temp Microwave Heating of Semiconductors	Kedar Mulpuri	Lake Braddock Secondary School
11-I-10	The Effect of Foundations on Earthquake Resistance	James Dressing	West Potomac High School
12-I-2	From Whales to Wings: Flipper Inspired Airfoils	Steve D'Souza	Robinson Secondary
12-I-3	Water Turbine Efficiency	Gregory Bechtol	West Potomac High School
TM-I-2	Ballistic Pendulums for Dummies	Roman Polyakov, Sondra Ridley	Marshall High School
TM-I-6	Up Up and Away	Madhav Munnaluri, John Zettler	Marshall High School
TM-I-8	Building Over Marine Clay	Amjaad Al-Hussain, Jana Nusairat	Islamic Saudi Academy
TM-I-15	January Skies: An Experiment in Aerospike Rocketry	Jake Dodd, Arian Fathieh, Peter Seymour	Langley High School
TM-I-16	Various Light Wavelengths on Electric Generation	Erika Guevara, Jenny Kim, Tina Tang	Hayfield Secondary
TM-I-17	The Effect of a Beams Design on its Strength	Elizabeth Belte, Megan Zimpelman	Madison High School
TM-J-2	Train Efficiency	Corey Lim, Jeff Lindemann, Matt Parker	Paul VI High School
TM-J-4	Designing a Better Boat Hull	Erin Friedlander, Bethany Horstmann, Lisa Morrisette	Westfield High School
TM-J-5	Effect of Solar Panel Design on Heat Output	Zachary Bradford, Michael Finneran	Chantilly High School
09-K-1	Fertilizer on Growth and Death of <i>C. vulgaris</i>	Dennis Li	Langley High School
09-K-4	Effect of Electricity on Soil Macronutrients	Lani Kroese	Chantilly High School
09-K-5	Land Use Effects On Wolftrap Creek Water Quality	Laura Wolff	Madison High School
09-K-6	Global Warming: Effect of Melting Ice on Rising Sea	Andrea Lockard	Falls Church High School
10-K-2	The Effect of Incense on Ants Directional Sense	Sarah Toy	Oakton High School
11-K-4	Is Chapel Lake Suitable for Recreational Use?	Elaine Westcott	Woodson High School
12-K-1	Effect of Acid Rain on Plant Growth	Kirti Johal	Fairfax High School
TM-K-4	The Effect of Urbanization on Water Quality	Daniel Hermes, Michael Paquette, Joseph Schambach	Paul VI High School
TM-K-6	The Effect of Temperature on Trihalomethanes	John Fitzsimmons, Richard Hartman, Olivia Miller	Hayfield Secondary
TM-K-7	Biodiversity and Environmental Stress	Emma Canfield, Tommy Canfield	Langley High School
10-L-1	Potability of Saltwater After Filtration	Debbie Smith	Robinson Secondary
11-L-1	The Phytoremediation of Zinc	Ume Habiba	Mount Vernon High School



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TM-L-1	Could Gypsum Save the Bay?	Jacob Boswell, John Christenson, Joshua Gaghan	Lee High School
09-M-1	Effect of Equations on Fractal Behavior	Annie Wong	Chantilly High School
11-M-1	Algorithm to Forcast Sales Data	Will Peabody	Lake Braddock Secondary School
09-N-1	Effect of pH on Properties of Bisphosphonates	Brandon Soto	Madison High School
11-N-1	Effect of LED Exposure on Planaria Regeneration	Brian Carle	Chantilly High School
12-N-1	Designing New Insulin Using Evolutionary Approach	Kathleen Clement	Langley High School
09-O-1	The Effect of Hot Sauce and Horseradish on Oysters	Alexandra Straton	Oakton High School
12-O-2	The Effect of Triclosan on Escherichia coli	Tamar Roomian	South County Secondary School
TM-O-2	Detergent Type and DNA Extraction	Amanda Steffy, Christine Zaccack	Langley High School
09-P-1	The More Pref. Seige Weapon of the Middle Ages	Bennett Salmon	Centreville High School
10-P-1	How Strong is Your Grocery Bag?	Samatar Yonis	Robinson Secondary
10-P-5	Wire Strength	David Winters	Annandale High School
10-P-15	The Effect of Density on Pitch	Katherine Hagerty	Robinson Secondary
10-P-16	How Drag and Weight Affect the Rockets Altitude	Dhiman Sengupta	Westfield High School
11-P-1	The Effect of Various Suspensions on Drag Force	Katherine Browning	Oakton High School
11-P-14	Straws, Sound Absorbers	Thomas Meeusen	Westfield High School
TM-P-2	Rocket Recovery Methods Other Than a Parachute	Abhiraj Dinh, Angus MacDonald	Edison High School
TM-P-6	Resistance of Air	Timothy Ghazzawi, Lindsay Johnson	Marshall High School
TM-P-11	The Effect of Blow-Drying on a Hair's Strength	Daniella Eguiguren, Kathleen Gately, Hayden Overly	Robinson Secondary
TM-P-28	Pressure on Voltage of Piezoelectric Crystals	David Monroe, Thomas Swengros	Lee High School
09-Q-1	Effect of Heat on the Germination of Pine Seeds	Julia Springfield	South Lakes High School
09-Q-4	Effect of Potash on Bean Plants	John Gillen	Fairfax High School
10-Q-2	Plant Growth After Extreme Heat	Derek Lukaczyk	Fairfax High School
TM-Q-2	The Effect of Fertilization on Hydroponic Peas	Lydia Bronstein, Thomas Graf, Lindsey Grathwol	Centreville High School
TM-Q-5	Effect of Nitrogen Fixing Bacteria on Soy Plants	Hyun Kim, Loren Kim, Malik Kotob	Robinson Secondary
TM-Q-9	Effects of Vitamins A, B, and E on Radish Seeds	Abel Teklu, Huma Zaman	Robinson Secondary
TM-Q-13	Which Food Compost is Best for Plant Growth?	Kristen Hall, Alysha Lustre	Lee High School