

PRINCE GEORGE'S AREA  
SCIENCE FAIR - March 24, 2007

	Junior - Animal Sciences		Junior - Computer Science
J-0101	Rescuing Wildlife	J-0601	Shall We Play a Game?
J-0103	The Cozy Cryciscilis Coaxing Metamorphis		Junior - Earth & Planetary Science
	Junior - Behavioral & Social Sciences	J-0701	Natural Magnet
J-0201	Color Wonder	J-0702	Blowing Up a Balloon...
J-0202	Can You Trust Your Eyes	J-0703	Fog Formation
J-0203	Peripheral Vision	J-0704	Ancient Bites
	Junior - Biochemistry	J-0705	DNA - The Way of Life
J-0301	Burning NUTS Give Off Energy?	J-0706	Using Solar Power
J-0302	Vitamin C'Prise	J-0707	Heating Earth's Surface
J-0303	Food and Preservation	J-0708	Wave vs. Land
J-0304	How Do Oil Spills Affect Marine Life?	J-0709	Lowering the Viscosity of Crude Oil
J-0305	Where Did My Soap Go?	J-0710	Simple Nonlinear Systems & It's Connection...
J-0306	The Dissapearing Egg Shell	J-0711	Bouyancy Properties Salt vs Fresh Water
	Junior - Cellular & Molecular Biology	J-0760A	Teeth-In a Drink!
J-0401	Can Bones Stripped of Calcium...		Junior - Energy & Transportation
	Junior - Chemistry	J-0801	Rocket Works
J-0501	Is the Bunny Unbeatable?	J-0802	The Incredible Egg
J-0502	Viscosity of Liquids	J-0803	Does A Shorter Delay Equal...
J-0503	Water is Water, Right?	J-0804	Maglevs!!!
J-0504	Effects of Solvent Polarity in Chromatography	J-0805	The Freezing Fuel Cell Conundrum
J-0505	Volatile Vaporization	J-0806	Don't Be a Drag-Shape Up!
J-0506	Crystallography and Chemistry		Junior-Engineering:Electrical&Mechanical
J-0507	Edgecombe	J-0901	How Does Steel Wood Generate Heat?
J-0508	Expando	J-0902	Electric Evaporation
J-0509	Browning Apples III	J-0903	Lights, Camera, Action
J-0510	The pH of Household Products	J-0904	Quake and Shake
J-0511	A PH Dilemma	J-0905	Railgun, Weapon of Mass Disposal
J-0512	The Melt Down		Junior-Engineering:Materials&Bioengineering
J-0513	Pour and Freeze	J-1001	Shaken Not Stirred
J-0514	Surveying Surface Tension	J-1002	A Sticky Situation
J-0515	Chemical Magnetism	J-1003	Aerodynamics of a Solar Car
J-0516	Freezing Liquids	J-1004	The Skyscraper
J-0517	"Eggs-Mosis - The Power of Osmosis"	J-1005	Chill!
J-0518	Do Dyes Matter?	J-1006	Color and the Absorption and Reflection...
J-0519	Growing Sucrose Crystals	J-1007	Earthquake
J-0520	Effects of Different Flame Retardants		Junior - Environmental Sciences
		J-1101	It's Getting' Hot In Here!!!
		J-1102	Will Metal Rust Faster in Salt or Fresh Water?

J-1103 "Protect Water Now"  
J-1104 The Growth of Algae  
J-1105 Glues Clues  
J-1106 Polyfelt vs Batting vs Foil  
J-1107 "Still Waters Run Clean"  
J-1108 Materials and Insulation  
J-1109 Assessing Maryland's Water Quality

Junior - Environmental Management

J-1201 Saving with Spirals  
J-1202 Divert and Conquer  
J-1203 Fast Food for Horse Farms  
J-1204 Can Regular Household Chemicals...

Junior - Mathematical Sciences

J-1301 Needles, Boards and PI, OH MY!  
J-1302 Counting Bach

Junior - Medicine & Health Sciences

J-1401 Raisin' Pressure  
J-1402 Sparkle 'n' Shine  
J-1403 Fat Meltdown  
J-1404 Alka-Seltzer...  
J-1405 The Effectiveness or Different Disinfectants...  
J-1406 What is in the Air?  
J-1407 The Effects of Liquids on Teeth  
J-1408 The Stomach Acid Solution  
J-1409 Bread Mold

Junior - Microbiology

J-1501 Phytoplankton: Friend or Foe  
J-1502 Behold the Mold  
J-1503 Mold and You  
J-1504 What's in the Jar?

Junior - Physics & Astronomy

J-1601 For the Best Lubricant...  
J-1602 Pressure vs Distance  
J-1603 Freezing Points of Liquids  
J-1604 Thinking Thermally...  
J-1605 The Harmonic Motion of a Pendulum  
J-1606 Tilt-A-Worm: Regeneration  
J-1607 FLING!  
J-1608 Hydrogen Energy  
J-1609 "Free Falling Objects"

J-1610 Electricity from Plants  
J-1611 Chillin' With Frosty  
J-1612 Football Torgue  
J-1613 Heated Magnet  
J-1614 Friction: Slipsliding

Junior - Plant Sciences

J-1701 Spoiled Rotten Fruits  
J-1702 Pothos Ivy  
J-1703 Waterworks  
J-1704 Grow Faster for the Pasture  
J-1705 Hydroponics  
J-1706 Liquid Vegetation Extraction  
J-1707 "Color Changing Flowers"  
J-1708 Plant Growth with Various Types of Water  
J-1709 Which is the Fastest?  
J-1710 The Effect of Acid Rain on Plant Growth

Senior - Animal Sciences

- S-0101 Caenorhabditis Elegans; Double Mutant...
- S-0102 Oviposition and Progeny Success...
- S-0103 Fluid Transportation in Mayfly Nymphs
- S-0104 Substrate Effects on Naked Mole-Rats
- S-0105 The Effect of CaE/DA on CeTwist Strains
- S-0160A Temperature and Sand Fly Development
- S-0161A The Structure of Fingerprints

Senior - Behavioral & Social Sciences

- S-0201 Infants Imitate the Actions of Others
- S-0202 Illusion Conclusion
- S-0203 Audio vs. Visual
- S-0204 Brainiac!
- S-0260A The Effects of Age on Auditory Hallucination

Senior - Biochemistry

- S-0301 Bt Toxicity vs Protein Concentration
- S-0302 An Expedition on a Laser Microtow
- S-0303 Mutational Analysis of Predicted...
- S-0304 Aww Nuts

Senior - Cellular & Molecular Biology

- S-0401 Western Blotting for AQPI
- S-0402 The Effect of Caffeine on Mitosis
- S-0403 Tumor Marker Expr. In TSP1-NO Interaction
- S-0404 Wnt/Frizzled Interactions and Signaling

Senior - Chemistry

- S-0501 How Sweet It Is
- S-0502 Testing Bioassays for Varying Viscosity
- S-0503 Effect of Heat Lactids on Milk Proteins
- S-0504 Fatty Acids in Baby Food
- S-0505 Triclosan - Is It In You?
- S-0506 The Voltaic Cell....
- S-0507 Nebular Dust Analogs as Catalysts
- S-0508 Polarity and Freezing
- S-0509 Oh My! My Water's Hard
- S-0510 How Wires Effect Production or Light
- S-0511 Disappearing Inc.
- S-0512 Analysis of Water Soluble Vitamins...
- S-0560A Hot Marker Mess
- S-0561A Calorimetry

Senior - Computer Science

- S-0601 Computer Aided Design Model
- S-0602 Automated Event Detection
- S-0603 Comparing Gaming Languages

Senior - Earth & Planetary Science

- S-0701 Heat Flux and Net Precip.-Evap.
- S-0702 The Potentials of Metals
- S-0703 Global Cooling? The Ocean...
- S-0760A Sandbags

Senior - Energy & Transportation

- S-0801 Efficiency of a UAV Engine and Generator
- S-0802 Window Pain: Cost of Heat Loss
- S-0803 Too Hot To Handle
- S-0804 Got Nuts?
- S-0805 A Battery's Life
- S-0806 Effect of Wing Design on a Model Rocket's...
- S-0807 Aw, Chute!
- S-0808 Physics of Failure

Senior-Engineering:Electrical&Mechanical

- S-0901 The Right Angle: Maximizing Solar Panel Output
- S-0902 Light the Night Not the Sky
- S-0903 Designing a Gait for the Tetrahedral...
- S-0904 Performance of Plastic Sheet...
- S-0905 Failure in Space Shuttle System Sensor
- S-0906 The Electric Cricket
- S-0907 What's Going on in Your Wind Tunnel?
- S-0908 Break It Down
- S-0909 Insulation Investigation...
- S-0960A Can You Hear Me Now?
- S-0961A Skyscrapers

Senior-Engineering:Materials&Bioengineering

- S-1001 Bridge Battle
- S-1002 Tissue Scaffolding with BisGMA-TEGMA
- S-1003 Flying Under the Radar
- S-1004 Reducing Shrinkage of Nickel Using Carbon
- S-1005 The Effect of Gum Arabic on the Biomineralization...
- S-1006 Collapsing Bridges
- S-1007 Characterization of BiFeO<sub>3</sub> Thin Films
- S-1008 Oops I Made a M.E.S.

Senior - Environmental Sciences

- S-1101 The Affect of Salt Water in Different...
- S-1102 Fertilizers Effect on Plants...
- S-1103 Soil Pollution
- S-1104 Water Quality Around Chincoteague Island...
- S-1105 Effect of Vitamin Band E on Ivy Plants
- S-1160A Don't Drink the Water!!!

Senior - Environmental Management

- S-1201 Survivor: Smith Island

Senior - Mathematical Sciences

- S-1301 Chill Factor: Newton's Law of Cooling
- S-1302 Vector Alignmewnt of Telescopes
- S-1303 The Gambler's Dilemma
- S-1304 Basic Poly VDW

Senior - Medicine & Health Sciences

- S-1401 Evaluation of ABC Transporter...
- S-1402 Examination of NO in Alzheimer's
- S-1403 Uncovering the Role of SRC Kinastes
- S-1404 Methicillin Resistant Staphyococcus Aureus...
- S-1405 Glass Seals for Laminar Dental Ceramics
- S-1406 Blocking the Rays

Senior - Microbiology

- S-1501 E.Coli WT and Luxs Stress Responses
- S-1502 Bacteria Growth in Water Bottles
- S-1503 How Damaging is Lead Exposure...
- S-1504 Antibiotic Resistance in Produce Commodities
- S-1505 E.Coli and Alcohol
- S-1506 Effect of Sugars on Fungal Growth
- S-1507 Identification of Common Bacteria
- S-1508 Hydroclean
- S-1509 Oligodynamics Activity of Heavy Metals
- S-1510 Alchohol and Escherichia Coli
- S-1511 Herbs in Action: Fighting Bacteria
- S-1560A The Effect of Disinfectants on E.Coli

Senior - Physics & Astronomy

- S-1601 Resonance of Nanoparticles
- S-1602 The Dark Secret of Dark Matter
- S-1603 Effect of Flute Length on Pitch

- S-1604 Pinhole Viewers, Do They...
- S-1605 Images of a Pinhole
- S-1606 Archery Comparing Elevation to Range
- S-1607 Wind Energy: Is a Horizontal or Vertical...
- S-1608 Active Ballast for Car and SUV Safety
- S-1660A Sky High
- S-1661A Big Game Trilene vs. Big Game Trilene Supreme
- S-1662A Refraction Reaction
- S-1663A Magnet Muscle

Senior - Plant Sciences

- S-1701 Bioremediation
- S-1702 pH an Plants
- S-1703 The Effect of Silene Stellata Floral...
- S-1704 Antioxidant Content in Small Fruits
- S-1705 Determination of Drought...
- S-1706 Is the Grass Greener on the Other Side?
- S-1707 DNA Marker Linked to Parthenocarpy
- S-1708 "Flower Power"