

**First Place**  
**2013 - Langley High School Fair**

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09-A-3

Kendy Li

**The Effect of pH on Dinoflagellate Bioluminescence**

TM-B-3

Na He Jeon

**Autism: Comparing Effects of Auditory Stimuli**

11-C-5

WonSouk Choi

**The rapid detection of mad cow disease in humans**

11-F-2

Adam Ruffa

**Optimizing 8-Bit Devices With Confounding Code**

TM-G-1

Max Luo, Andrew Ton

**Effect of Novel Algorithms in Conjunction With Sat**

09-H-1

Jack D Langford

**Effect of Moist on Bridge Strength**

10-I-7

Conor Maddry

**Novel Attempt at Fabricating a Cost-Effective Exos**

09-J-2

Manolya El-Sekkaki

**Effect of photovoltaic cell type on amt electricit**

09-K-2

**Jessica Smith****Increasing  $f/2$  on growth of *Prorocentrum minimum***

09-L-2

**David Fraley****The Effect of Salinity on Water Electrolysis**

10-L-3

**Michael J Ryan****The Effect of Rock Erosion Barriers on Erosion**

11-L-4

**Zachary H Roman****Growth of Spongillidae Gemmules in Stream Water**

11-N-8

**Jason Cui****MicroRNA Biomarkers for Anti-Tumor Response**

12-N-9

**Kelvin Niu****Trace Elements as Pancreatic Cancer Biomarkers**

11-P-11

**Erin Klein****Carbon Composite Composition in Field Hockey Stick**

**Second Place**  
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09-C-2

**Amelian Marrogi****Different staining procedures on Leishmaniasis**

09-E-2

**Swetha Ramesh****The Effect of Carbon on Decomposition**

11-E-6

**Avani Hegde****Quality of Bottled Water**

TM-F-3

**Rafael Dejesus, Rafael Dejesus,  
Raphael Dejesus, Raphael Dejesus****Fluids and Functionality of Calculators**

09-H-2

**Catherine Park****Effects of Insulation on Temperature Change**

11-H-3

**Benjamin Kenna****the effects of barrel material on accuracy**

09-I-2

**Sahara D Shrestha****The Effect of Thickness of Wire on Radio Frequency**

TM-J-3

**Katherine Carris, Minh N Pham****Effect of Water Types on Speed Fuel Cell Cars**

09-K-6

**Kathryn Wen****Effect of herbicides on bean plant growth**

TM-K-10

**Micaela Grassi, Madeline  
Thompson****The Effect of Laundered Fabrics on Filtering UV**

11-L-5

**Alex M. Blankinship****The Effect of Hydrilla on Nitrate Level**

TM-N-5

**Ricki Libby, Patricia Loria****Effect of Different Medical Treatments on the Zone**

TM-N-6

**AJ Pillai, Dylan Zimbrick****The Effect of Cell Phone Use on Radiation**

09-P-5

**Natalie Koppier****Effect of glue type on joint strength**

09-P-6

**Ben Ewell****Effect of String Contaminant on Sound Quality**

09-Q-4

**Penelope Mort Ranta****Natural Slug Repellents on Pansy Damage**

**Third Place**  
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09-A-2

**Lyric Yu****The Effect of Carbonated Water on Planaria Growth**

11-A-4

**Christopher Blankingship****Effect of Pesticides on Stinkbug Eating Habits**

09-C-3

**Paul Youssef****Eff. of Tim nd temp on deter of VC in various OJ's**

09-E-1

**Alexis L Apostolou****The Effect of Lighting on Acrylic Paintings**

11-F-1

**Ahad M Zafar****Effect Of Materials On Delivering Wi-Fi Signals**

09-I-3

**Andrew Dudzik****Effect of Dif. Materials on Cell Phone Radiation**

11-I-10

**Sid Chawla****Pringles - The Next-Gen Innovation**

09-K-4

**Natalie Ralston****Pollutants of Ches Bay on Daphnia Magna**

09-K-5

**Yasmin Khodaei**

**Effect of chemicals on organisms in lake water**

09-K-7

**Abby Jackson**

**Effect of pH on Shellfish Condition**

09-K-9

**Abigail Spira**

**The Effect of Plants on Water Quality**

10-N-3

**Meredith Hargroves**

**Head Protection Materials and Brain Movement**

09-P-2

**David Gent**

**The Effect Angle of Attack on Lift**

TM-P-12

**Jonathan Grow, Alex M Lim**

**The Effect of Propeller Pitch on Aircraft Flight**

10-Q-5

**Michael Tong**

**The Effect of X-Ray Radiation on Plant Growth**

11-Q-7

**Rachel Myers**

**Effectiveness of Water Absorption for Plant Growth**