

**2012 South Sound Regional Science Fair
High School Specialty Awards**

Award	Project Title	Name	GR	School	District
AAUW Outstanding Research	Construction and Utilization of a Two-Space Mechanical Lung Models for the Estimation of Airway Resistance of Infants with Pulmonary Diseases	Veena Iyengar	11th	Bellarmine Preparatory School	Private
American Psychological Association Certificate of Award	Boy Girl or Neutral?	Rachel Newkirk	9th	Lakes High School	Clover Park
American Meteorological Society Certificate of Outstanding Achievement	Air Pollution at Different Heights on Busy Roads	Santana Johnson	9th	Wilson High School	Tacoma
Most Outstanding Exhibit in Materials Science	Using the Right Aggregates Has Its Perks	Jde Bateman	9th	Frontier Junior High School	Bethel
AWG Student Award for Geoscience Excellence	Construction of a Manta Tow for Sampling and Microplastic Concentration Analysis in the Puyallup River Estuary	Shannon Nardi	12th	Bellarmine Preparatory School	Private
NEED Energy in Action	Development of an Illuminated Portable Brachyuran Crab Larva Excystment Trap	Ian Staeheli	12th	Bellarmine Preparatory School	Private
		Thomas Grant	12th	Bellarmine Preparatory School	Private
NOAA's Taking the Pulse of the Planet Award	Plankton Effect on Razor Clams	Colton Kray	10th	Lakes High School	Clover Park
NSPE Innovative Engineering Award	Construction and Utilization of a Two-Space Mechanical Lung Models for the Estimation of Airway Resistance of Infants with Pulmonary Diseases	Veena Iyengar	11th	Bellarmine Preparatory School	Private
Office of Naval Research Naval Science Award	Testing the Effects of Electret Backing Geometry on Rotational Velocity	Rian Chandra	11th	Capital High School	Olympia
	An Assessment of the Practicality of Copper Solar Cells	Nicolas Basil	11th	Curtis High School	University Place
	The Revolution of Supersonic Technology: Implementing Dihedral Winglets for Performance Optimization in Supersonic Flow	Sumukh Bharadwaj	11th	Capital High School	Olympia
Innovative Science Award	The Revolution of Supersonic Technology: Implementing Dihedral Winglets for Performance Optimization in Supersonic Flow	Sumukh Bharadwaj	11th	Capital High School	Olympia

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High School Specialty Awards (Continued)

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Safety First Award	Testing the Effects of Electret Backing Geometry on Rotational Velocity	Rian Chandra	11th	Capital High School	Olympia
	Development of an Illuminated Portable Brachyuran Crab Larva Excystment Trap	Ian Staeheli	12th	Bellarmine Preparatory School	Private
Stockholm Junior Water Prize	Soak It Up	Laura Garcia	9th	Wilson High School	Tacoma
	Construction of a Manta Tow for Sampling and Microplastic Concentration Analysis in the Puyallup River Estuary	Shannon Nardi	12th	Bellarmine Preparatory School	Private
	Effect of Car Washing Products on the Amount of Nitrogen Absorbed in Different Soil Mixtures	Lisa Vo	9th	Wilson High School	Tacoma
The Regional Ricoh Sustainable Development Award	Lets Clean it Up: The Effects of Motor Oil on Hand-Made Filters	Michelle Crosby	9th	Wilson High School	Tacoma
US Air Force Certificate of Achievement	Clean Enough? Testing the Bacteria Growth of Clean vs. Not Clean Dishwashers	Schae Smith	9th	Wilson High School	Tacoma
	Reacting to Segregation	Felicia Agrelius	11th	Lakes High School	Clover Park
	The Revolution of Supersonic Technology: Implementing Dihedral Winglets for Performance Optimization in Supersonic Flow	Sumukh Bharadwaj	11th	Capital High School	Olympia
	Time of Death Determination Simulation	Jenna Algeo	9th	Wilson High School	Tacoma
US Metric System Award	The Revolution of Supersonic Technology: Implementing Dihedral Winglets for Performance Optimization in Supersonic Flow	Sumukh Bharadwaj	11th	Capital High School	Olympia
Society for In Vitro Biology	Distinguishing Associations between the Entropion Eyelid Phenotype and Mutations on the Candidate Gene on Chromosome 4	Ashwin Prakash	11th	Curtis High School	University Place
Most Outstanding 11th Grade Exhibit	Testing the Effects of Electret Backing Geometry on Rotational Velocity	Rian Chandra	11th	Capital High School	Olympia

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US Army Certificate of Achievement - Life Sciences	Can You Hear Me Now?	Sampath Duddu	10th	Capital High School	Olympia
	Energy Burner	Ashley Yotter	9th	Frontier Junior High School	Bethel
	How Accurate is Eyewitness Testimony?	Tessa Thurman	10th	Annie Wright School	Private
	The Development of a Probability Occurrence Model for Alexandrium catenella Blooms in Quatermaster Harbor, WA	Casey Kendall	12th	Bellarmine Preparatory School	Private
		Elizabeth Sharrard	12th	Bellarmine Preparatory School	Private
The Revolution of Supersonic Technology: Implementing Dihedral Winglets for Performance Optimization in Supersonic Flow	Sumukh Bharadwaj	11th	Capital High School	Olympia	
US Army Certificate of Achievement	Testing the Effects of Electret Backing Geometry on Rotational	Rian Chandra	11th	Capital High School	Olympia
	Using the Right Aggregates Has Its Perks	Jde Bateman	9th	Frontier Junior High School	Bethel
	Construction and Utilization of a Two-Space Mechanical Lung Models for the Estimation of Airway Resistance of Infants with Pulmonary Diseases	Veena Iyengar	11th	Bellarmine Preparatory School	Private
Best of Washington Award	Distinguishing Associations between the Entropion Eyelid Phenotype and Mutations on the Candidate Gene on Chromosome 4	Ashwin Prakash	11th	Curtis High School	University Place
	The Revolution of Supersonic Technology: Implementing Dihedral Winglets for Performance Optimization in Supersonic Flow	Sumukh Bharadwaj	11th	Capital High School	Olympia
	Construction and Utilization of a Two-Space Mechanical Lung Models for the Estimation of Airway Resistance of Infants with Pulmonary Diseases	Veena Iyengar	11th	Bellarmine Preparatory School	Private

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Notebook Neatness	The Effects of Chemical Inhibitors, Potassium Chloride and Propylene Glycol, on Snail Mass	Adaiya Granberry	9th	Wilson High School	Tacoma
	The Effect of Lawn Products H2O Pollution on Gold Fish Respiration	Brittany Mahoney	9th	Wilson High School	Tacoma
	All in the Family: The Affects of Birth Order on Personality and Socail Behavior	Jasmine Littlejohn	9th	Wilson High School	Tacoma
	Distinguishing Associations between the Entropion Eyelid Phenotype and Mutations on the Candidate Gene on Chromosome 4	Ashwin Prakash	11th	Curtis High School	University Place
	Plankton Effect on Razor Clams	Colton Kray	10th	Lakes High School	Clover Park
	The Effect of Apple Cider VInegar on Streptococcus lactis	Sabrina Scarlett	9th	Wilson High School	Tacoma
Best of Washington Award	Distinguishing Associations between the Entropion Eyelid Phenotype and Mutations on the Candidate Gene on Chromosome 4	Ashwin Prakash	11th	Curtis High School	University Place
	The Revolution of Supersonic Technology: Implementing Dihedral Winglets for Performance Optimization in Supersonic Flow	Sumukh Bharadwaj	11th	Capital High School	Olympia
	Construction and Utilization of a Two-Space Mechanical Lung Models for the Estimation of Airway Resistance of Infants with Pulmonary Diseases	Veena Iyengar	11th	Bellarmino Preparatory School	Private