

Special Award	Award Sponsor	Title	Student List	Organization	Adult Sponsor
MS Best of Fair	Kumon of Hillsboro and Cedar Mill	No Child Left Behind - A Novel System to Prevent Vehicular Hyperthermia in Children	Jessica Yu	Highland Park Summa Program	Jordan Lyden
MS Best of Fair	Kumon of Hillsboro and Cedar Mill	Do Middle School Students Comprehend Informational Text Better on Hard Copy or on an E Reader	Malia Masterson	Cascade Heights Public Charter School	Melanie Adams
Best of Category in Animal Science	Glen Teague Memorial	Comparing the Effects of Temperature on the Mobility of American Bullfrogs and Oregon Spotted Frogs	Raven Dow-Hygelund	Bend Science Station	Danny Martin
Best of Category in Behavioral and Social Science	Portland Alcohol Research Center at OHSU & VAMC	Do Middle School Students Comprehend Informational Text Better on Hard Copy or on an E Reader	Malia Masterson	Cascade Heights Public Charter School	Melanie Adams
Best of Category in Chemistry	The Bilow Group - Lake Oswego, OR	Natural Alternative to Toxic Flame Retardants	Divya Amirtharaj	Meadow Park Middle School	Kynah Atwood
Best of Category in Consumer Product Testing	Eclipse Technologies	Testing the blocking qualities of various forms of eye wear against UVA and UVB light	Nina Lawler	Bend Science Station	Danny Martin
Best of Category in Earth Science	Glen Teague Memorial	Randomized Approach to Seismic Decay	Theresa D'Silva	Summa Stoller	Todd Freiboth

Best of Category in Energy	Northwest Power and Conservation Council	Methane Digester	Collin Standley	Mark Twain Middle School	Daniel Jamsa
Best of Category in Engineering	Ralph M Cohen Consultancy	No Child Left Behind - A Novel System to Prevent Vehicular Hyperthermia in Children	Jessica Yu	Highland Park Summa Program	Jordan Lyden
Best of Category in Engineering: Mechanical and Materials	Ralph M Cohen Consultancy	Protection from the puck	Gareth Cooper	Rachel Carson Environmental Middle School	Rebecca Hall
Best of Category in Environmental Science	Tualatin River Watershed Council	Saving the Planet Earth :The Fueled Battle Between Biofuels	Harshita Narayanan	Stoller Middle School	Todd Freiboth
Best of Category in Mathematics and Computer Science	Columbia Willamette Chapter of Sigma Xi	Forecasting Movement of the NYSE Composite Index Using Monte Carlo Simulation	Maya Bedge	Meadow Park Middle School	Kynah Atwood
Best of Category in Mathematics and Computer Science	Kumon of Hillsboro and Cedar Mill	Forecasting Movement of the NYSE Composite Index Using Monte Carlo Simulation	Maya Bedge	Meadow Park Middle School	Kynah Atwood
Best of Category in Medicine and Health	Oregon Health and Sciences University	Radiating Beauty	Isabella Molyneux	Blanchet Catholic School	Gail Armstrong
Best of Category in Microbiology	Nathan and Melissa Potter	Effectiveness of Antibacterial Soaps Versus Regular Soaps	Natalie Wang	ACCESS Academy	Alfonso Garcia Arriola
Best of Category in Physics: Electromagnetic	Claude and Florence Zeller	Left, Right and Backwards	Avrie Davisson	Heritage Middle School	Karl Topping

Best of Category in Physics: Mechanical	Claude and Florence Zeller	Exploring Gel Electrophoresis	Meher Chand	Stoller Middle School	Todd Freiboth
Best of Category in Plant Science	Columbia Willamette Chapter of Sigma Xi	The Study of Elodea Plant Chloroplasts After Exposure to Acidic Conditions	Larissa Chan	Lake Oswego Junior High	Joe Godfrey
<u>Category</u>	Place	Title	Student List	Organization	Adult Sponsor
Animal Sciences	First Place	The Effects of Music the Heart	Alyssa Knudsen, Sydney Roth	Oregon Episcopal Middle School	Anna Rozzi
Animal Sciences	First Place	Deer Crossing	Garrett Fromwiller	Blanchet Catholic School	Gail Armstrong
Animal Sciences	Second Place	Sniff Sniff: Find out what smells fish like	Aphaf Alattar, Maysa AbuSneineh, Rawdah Hegazy	Baker Web Academy	Manar Alattar
Animal Sciences	Second Place	How Does a Cricket's Diet Affect its Growth and Development?	Nicole Miller	Summa Cedar	Winter Chung
Animal Sciences	Second Place	Influence of Genetically Modified Papaya on the Development of Diabetes in Drosophila Melanogaster	Jackie Zhang	Summa Stoller	Todd Freiboth
Animal Sciences	Third Place	How Dogs React to Human Emotions	Olivia King, Madelynn Hoffman	Leslie Middle School	Michael Rockow
Animal Sciences	Third Place	Factors that Affect Recovery of Monkeys After Surgery	Alanna Sherman	Robert Gray Middle School	David Wages
Animal Sciences	Third Place	Is Your Dog A South Paw?	Sarah Walters	Robert Gray Middle School	David Wages
Animal Sciences	Third Place	What species of crickets tells the most accurate temperature?	Eleanor McDermott, Hannah Mohtadi	Metro Montessori Middle School	Jonathan Erickson
Animal Sciences	Honorable Mention	Ant Factory	Hunter King, Cameron Kelly, Will Andrews	Cascades Academy of Central Oregon	Anne-Marie Eklund

Animal Sciences	Honorable Mention	Catch Me Kitty	Madison Gadbaw, Lola Talalemotu	Whitford Middle School	Robin Schroeder
Animal Sciences	Honorable Mention	Reducing my Cat's Anxiety to Help her Fur Grow Back	Amity Irving	Mark Twain Middle School	Daniel Jamsa
Animal Sciences	Honorable Mention	Speed of Worms in Different Temperatures	Hailey Yadao	Valley Catholic Middle School	Sarah Zinzer
Animal Sciences	Honorable Mention	Cattle and Ringworm	Owen Amerson	Yamhill Carlton School District	Lisa Jacobs
Animal Sciences	Honorable Mention	The effect of microwave radiation on fruit fly mortality	Carina Kirby	Rosemont Ridge Middle School	Theresa Ellis
Animal Sciences	Honorable Mention	Pound Pooch Looks	Madison Edmunds	Meadow Park Middle School	Kynah Atwood
Behavioral and Social Science	First Place	Forgotten Baby Syndrome: Real Diagnosis or an Excuse for Bad Parenting?	Sumayah Abdirahman	Islamic School of Portland	Annie Petrossian
Behavioral and Social Science	First Place	Memorizing Words Using Different Mnemonic Devices	John Nguyen	Meadow Park Middle School	Kynah Atwood
Behavioral and Social Science	Second Place	How do different activities affect one's perception of time?	Dawson Fryer, Julian Dukes	Summa Whitford	Carolee Dearborn
Behavioral and Social Science	Second Place	Font for Thought	Chloe Unflat	Robert Gray Middle School	David Wages
Behavioral and Social Science	Second Place	Variations on Short Term Memory: How do Lifestyle Habits Affect Test Performance?	Tanya Chen	Summa Stoller	Todd Freiboth
Behavioral and Social Science	Third Place	This science of color: Can colored paper help you concentrate?	Kaya Phillips	Bridlemile Elementary School	Larry Sherman
Behavioral and Social Science	Third Place	Does Color Affect the Perception of Taste?	Maya Shaker, Nuradin Aden, Fatima Ali	Islamic School of Portland	Annie Petrossian

Behavioral and Social Science	Third Place	How Many Tasks Can One Do Simultaneously Without Concentration and Memory Being Negatively Affected	Timur Arifdjanov	Cascade Heights Public Charter School	Melanie Adams
Behavioral and Social Science	Third Place	Are Pedestrians Less Likely to Make a Risky Crossing When It's Dark?	William Hammond	Winterhaven Middle School	Brian "Jay" Dyer
Behavioral and Social Science	Honorable Mention	Have you forgotten? Factors influencing memory of text	Sasha Beebe	Bridlemile Elementary School	Larry Sherman
Behavioral and Social Science	Honorable Mention	Visual or Tactile?	Jane Warren, Lia Godino	Bridlemile Elementary School	Larry Sherman
Behavioral and Social Science	Honorable Mention	Can a peer teacher affect how 6th graders think	Genevieve Wages	Robert Gray Middle School	David Wages
Behavioral and Social Science	Honorable Mention	6th, 7th & 8th Grade Bullying, is There a Difference?	Elisa Mickelson	Robert Gray Middle School	David Wages
Behavioral and Social Science	Honorable Mention	Heart rate of Daphnia and Color of Light	Elana von der Heyden, Matilda Musser	Oregon Episcopal Middle School	Christopher Mader
Behavioral and Social Science	Honorable Mention	The "Eyes" Have It !	Jasmine Haji	Islamic School of Portland	Annie Petrossian
Chemistry	First Place	How varying salicylic acid concentrations affect the drying of jojoba oil	Alexa Tsai, Amanda Tracy	Oregon Episcopal Middle School	Anna Rozzi
Chemistry	First Place	Water Washing Works	Shomini Sen, Nina Velu	Valley Catholic Middle School	Sarah Zinzer
Chemistry	Second Place	Forget About Eating Sprouts, Use Them for This!	Ulfet Tayba	Islamic School of Portland	Annie Petrossian
Chemistry	Second Place	Lactose Free Milk	Amaar Mohammad	Summa Stoller	Todd Freiboth
Chemistry	Second Place	Water to Fuel to Water: The Fuel of the Future	Donitaa Julius	Stoller Middle School	Tom Stutzman
Chemistry	Third Place	Apples and Pectic Enzyme	Addison Taylor	Bridlemile Elementary School	Larry Sherman

Chemistry	Third Place	Synthesis, Properties, Applications of Gold Nanoparticles	Muhammad Faks, Mostafa Osman, Mahmood Jawad	Oregon Islamic Academy	Yusef Shari'ati
Chemistry	Third Place	How Much Sugar is in Our Food	Manar Abdeljawad	Islamic School of Portland	Annie Petrossian
Chemistry	Third Place	Something's Burning!	Elsa Buchholz	Valley Catholic Middle School	Sarah Zinzer
Chemistry	Honorable Mention	Super Cereal	Owen Bruce	Bridlemile Elementary School	Larry Sherman
Chemistry	Honorable Mention	The effectiveness of ninhydrin solution on detecting fresh and older fingerprints	Maxwell Knight	ACCESS Academy	Alfonso Garcia Arriola
Chemistry	Honorable Mention	Digestion of Eggs: Acid or Enzymes?	Salah Akrama, Yousif Ibrahim	Oregon Islamic Academy	Yusef Shari'ati
Chemistry	Honorable Mention	Magic of Photochemistry	Megan Tuck	St. Paul Parochial School	Jonathon Williams
Chemistry	Honorable Mention	Can flour affect the density of muffins?	Hayley Schuler	St. Cecilia School	Amy Stephen
Chemistry	Honorable Mention	Calorimetry of organic vs. conventional foods	Michelle Stevens	Wood Middle School	Kathryn Humm
Consumer Products Testing	First Place	The Safest Water Filter	Justus Gabriel	Rachel Carson Environmental Middle School	Rebecca Hall
Consumer Products Testing	First Place	It's All Down Hill From Here	Michael Venard	Heritage Middle School	Karl Topping
Consumer Products Testing	Second Place	Washing the Gluten Away	Kari Shippen	Mark Twain Middle School	Daniel Jamsa
Consumer Products Testing	Second Place	Are Organic Fruits and Juices Really Organic?	Layaal Khellah	Islamic School of Portland	Annie Petrossian
Consumer Products Testing	Second Place	A Comparison of Organic Versus Pharmaceutical Antacids Reducing Gastric Acid	Brock Henry, Garrett Taylor	Highland Park Summa Program	Jordan Lyden

Consumer Products Testing	Third Place	Egg Substitutes	Marleigh Dunning, Jane Whitticar, Jessica Whitticar	Cascades Academy of Central Oregon	Anne-Marie Eklund
Consumer Products Testing	Third Place	Animal Tested Detergents vs Non-Animal Tested Detergents	Lauren Brok, Paige Morrow, Stephanie Keenen	Oregon Episcopal Middle School	Christopher Mader
Consumer Products Testing	Third Place	Helmet Quality and Safety	Andrew Iliso	Mark Twain Middle School	Daniel Jamsa
Consumer Products Testing	Third Place	Simple Homopolar Motor	Sam May	St. Francis of Assisi School	Julia Renn
Consumer Products Testing	Honorable Mention	Are you playing soccer on cancer?	Kevin Foster, Kenneth Utter, Josh Raynak	Leslie Middle School	Michael Rockow
Consumer Products Testing	Honorable Mention	Which Pen?	Salman Najjar	Oregon Islamic Academy	Yusef Shari'ati
Consumer Products Testing	Honorable Mention	The Effectiveness of Lotions	Britney Guo	Meadow Park Middle School	Kynah Atwood
Earth Science	First Place	Farming on Mars	Taggart Cluff	Heritage Middle School	Karl Topping
Earth Science	Second Place	Taming Tsunamis	Caleb Duyck, Dominic Funk	Visitation School	Mrs. Carol Funk
Earth Science	Second Place	How Different Surface Conditions Affect Atmospheric Temperatures	Grace Kimball	Summa Cedar	Winter Chung
Earth Science	Second Place	Fighting Erosion	Benjamin Amann	Highland Park Summa Program	Jordan Lyden
Earth Science	Third Place	An Analysis on the Use of Wind Turbines to Reduce Hurricane Storm Surge	Julie Chen	Leslie Middle School	Michael Rockow
Earth Science	Third Place	Waves and surfaces of the bottom of the tub	Nina Jiang	Summa Whitford	Carolee Dearborn
Earth Science	Third Place	Erosion Prevention	Torin Repasky	Class Academy	Jaime Mitchell
Energy	First Place	Saving Water: One Toilet at a Time	Ari Lohr	Robert Gray Middle School	David Wages

Energy	First Place	Placement of a Sound-making Device on a Wind Turbine to Repel Bats	Camryn Pettenger-Wiley	Inza R. Wood Middle School	Steffany Wong
Energy	Second Place	Generating Electricity From Rainwater	Andrea Tongsak	Valley Catholic Middle School	Sarah Zinzer
Energy	Second Place	An Economic and Scalable Approach to Algae Biofuels	Tapabrata Ghosh	Summa Stoller	Todd Freiboth
Energy	Second Place		Dora Jolivet	Highland Park Summa Program	Jordan Lyden
Energy	Third Place	The Speed Behind the Maglev	Jonah Laduca, Jay Grant, Josh Morris	Leslie Middle School	Michael Rockow
Energy	Third Place	Transferring Energy	Khadija Ahmed, Sofia Al-Bawani	Oregon Islamic Academy	Yusef Shari'ati
Energy	Third Place	How Temperature Affects Battery Life	Lewis Tawney	Summa Cedar	Winter Chung
Energy	Third Place	Which Angle of Windmill Blade Generates the Most Power?	Haley Gentry	St. Cecilia School	Amy Stephen
Energy	Honorable Mention	Production of Energy in a Microbial Fuel Cell	Sona Sridharan	ACCESS Academy	Alfonso Garcia Arriola
Energy	Honorable Mention	Wave Hello to Renewable Energy	Gabriel Sauer	Summa Whitford	Carolee Dearborn
Energy	Honorable Mention	Power Problems	Isabelle Englund, Cole Eastman	Athey Creek Middle School	Stephen Walsh
Energy	Honorable Mention	Creating Electricity from Rain	Jayden Stintson	Cascade Heights Public Charter School	Melanie Adams
Energy	Honorable Mention	Cant handle the heat? Get out of the attic!	Aviva Soll	Winterhaven Middle School	Brian "Jay" Dyer
Energy	Honorable Mention	How design of wind turbine affect the efficiency of energy production?	Aidan Derocher	Stoller Middle School	Tom Stutzman
Engineering	First Place	An Automatic Irrigation System Based on Soil Conductivity	Lauren Li	Meadow Park Middle School	Kynah Atwood



Engineering	Second Place	Optimizing the lift to drag ratio of a landsailor's solid sail	Luka Perle	Bend Science Station	Danny Martin
Engineering	Second Place	Building a System to Prevent Child Vehicular Heat Stroke Deaths	Elaine Yang	Summa Stoller	Todd Freiboth
Engineering	Third Place	Disabled Crossings	Charlie Armstrong	Summa Whitford	Carolee Dearborn
Engineering	Third Place	Distance Measuring Device Using The Triangulation Method	Vikram Kashyap	Summa Cedar	Winter Chung
Engineering	Third Place	Arduino Robotics and Circuit Basics	Yukiko Gaudreault	Meadow Park Middle School	Kynah Atwood
Engineering	Honorable Mention	Airfoil design	Ben Becker, Grant Colman	Athey Creek Middle School	Stephen Walsh
Engineering	Honorable Mention	Experiments in Flight	Matthew Levis	St. Cecilia School	Amy Stephen
Engineering: Mechanical and Materials	First Place	Roller Coaster Ball Fall	Sethu Eapen	Summa Cedar	Winter Chung
Engineering: Mechanical and Materials	First Place	Optical marking of planes to aid search&rescue operations in case of crash	Seth Talyansky	Portland Jewish Academy	Vitaly Talyansky
Engineering: Mechanical and Materials	Second Place	Gecko adhesives: a new way to make tap and bandages	Joshua Kim	Rachel Carson Environmental Middle School	Rebecca Hall
Engineering: Mechanical and Materials	Second Place	Algae cleaner	Yaya Kiss	Athey Creek Middle School	Stephen Walsh
Engineering: Mechanical and Materials	Second Place	Butterfingers	Kyler Outman	Elton Gregory Middle School	Kyler Outman
Engineering: Mechanical and Materials	Third Place	Smart Cart Seat Sensor	Abdullah Rahman	ACCESS Academy	Alfonso Garcia Arriola
Engineering: Mechanical and Materials	Third Place	Intelligent Walking Stick for Fall Prevention among Elders	Soumik Chakraborty	Summa Stoller	Todd Freiboth
Engineering: Mechanical and Materials	Third Place	How temperature affects a 3-D printed product	Neel Jain	Rosemont Ridge Middle School	Rebekah Rydholm

Engineering: Mechanical and Materials	Third Place	How Does the Amount of Salt in a Corrosion Solution Affect the Tensile Strength of Steel	Grace Cook	Lake Oswego Junior High	Joe Godfrey
Engineering: Mechanical and Materials	Honorable Mention	Keeping Cool	Thomas Finegan, Fryslan Scheenstra	Visitation School	Mrs. Carol Funk
Engineering: Mechanical and Materials	Honorable Mention	Automatic Dog Feeder	Michael Pham	Summa Whitford	Carolee Dearborn
Engineering: Mechanical and Materials	Honorable Mention	Connections!	Lina Norris	Winterhaven Middle School	William Thompson
Engineering: Mechanical and Materials	Honorable Mention	Water Water Everywhere but not a drop to drink!	Akash Chinthamani	Valley Catholic Middle School	Sarah Zinzer
Engineering: Mechanical and Materials	Honorable Mention	Drone Rescuers	Lucie LeRutt	Class Academy	Jaime Mitchell
Engineering: Mechanical and Materials	Honorable Mention	Hydroponic Pumps	Himani Sood	Meadow Park Middle School	Kynah Atwood
Environmental Science	First Place	Predicting Distribution of Invasive Species in Oregon Using Machine Learning Techniques	Nashita Rahman	Summa Cedar	Winter Chung
Environmental Science	First Place	Effectiveness of Activated Carbon to Reduce Heavy Metal Contaminants from Water	Jasmine Guliani	Meadow Park Middle School	Kynah Atwood
Environmental Science	Second Place	Eco-Plastics Save the Planet	Hoda AbouEich	Oregon Islamic Academy	Yusef Shari'ati
Environmental Science	Second Place	Novel Approach for Remediation of Flame Retardant Pollution during Wastewater Treatment	Arjun Jain	Summa Meadow	Trygve Berg
Environmental Science	Third Place	Bioswales, The Secret Ingredient To A Health Ecosystem	Mia Fast, Maeve Eynard	St. Pius X School	Teresa Sebert
Environmental Science	Third Place	Moss Filtration	Jacquelyn Molloseau	Oregon Episcopal Middle School	Christopher Mader

Environmental Science	Third Place	Mycofiltration of Chlorine in Well Water	Maren Gingerich	Baker Prairie Middle School	Tara Christian
Environmental Science	Third Place	Stream Insect Colonization	Dhruva Sogal	Cedar Park Middle School	Melody Childers
Environmental Science	Honorable Mention	Processed or Organic Materials Composed of Carbon in Compost	Jacob Kerr	Rachel Carson Environmental Middle School	Rebecca Hall
Environmental Science	Honorable Mention	Dirty Water	Sierra Boyne	Rachel Carson Environmental Middle School	Rebecca Hall
Environmental Science	Honorable Mention	Comparing Particulate Matter and Days Absent from School	Susan McHarris	ACCESS Academy	Alfonso Garcia Arriola
Environmental Science	Honorable Mention	Green Plastic	Sundari Arunarasu	Valley Catholic Middle School	Sarah Zinzer
Environmental Science	Honorable Mention	Pollution Solution	Claire Middendorf	Blanchet Catholic School	Gail Armstrong
Environmental Science	Honorable Mention	Is Our Lake Lucky or Not?	Isabella Mattison	Woodland Intermediate School	Sharlene Brown
Mathematics and Computer Science	First Place	The Effect of Tilt or Touch Input on Robot Control	Toby Mache	Robert Gray Middle School	David Wages
Mathematics and Computer Science	First Place	To Buy or Not To Buy: Relative Efficiencies of Neural Networks for Predicting Lottery and Stocks	Anwasha Mukherjee	Summa Stoller	Todd Freiboth
Mathematics and Computer Science	Second Place	Are Genetic Algorithms Really Faster Than Conventional Methods for Solving NP-hard and NP-complete Problems?	Ben Hadad	ACCESS Academy	Alfonso Garcia Arriola
Mathematics and Computer Science	Second Place	iBeacons	Keri Zhou	Highland Park Summa Program	Jordan Lyden

Mathematics and Computer Science	Second Place	Why Don't Whales Develop Cancer? A cellular automaton simulation of cancer growth	Melinda Sun	Highland Park Summa Program	Jordan Lyden
Mathematics and Computer Science	Third Place	Low Cost Home Weather Station using Cloud Computing	Patrick Huang	Summa Whitford	Carolee Dearborn
Mathematics and Computer Science	Third Place	Trace Emails back to their senders and Stop Spam	Rupert Li	Summa Cedar	Winter Chung
Mathematics and Computer Science	Third Place	Teaching Genetics through Game Based Learning	Teresa Reding-Hoffart	Baker Prairie Middle School	Tara Christian
Mathematics and Computer Science	Third Place	Secure Your Online Key	SHEFALI GOEL	Stoller Middle School	Todd Freiboth
Mathematics and Computer Science	Honorable Mention	Magic Math Mango Game	Soren Ofstie	Oregon Trail Academy	Georgi Harris
Mathematics and Computer Science	Honorable Mention	Building a Productivity Application for Students	Kellen Petersen	Whitford Middle School	Robin Schroeder
Mathematics and Computer Science	Honorable Mention	Patterns within Number Sequences Translated into Different Bases	Grace Wallsinger	Mark Twain Middle School	Daniel Jamsa
Mathematics and Computer Science	Honorable Mention	Password Security	Meghana Narahari	Meadow Park Middle School	Kynah Atwood
Mathematics and Computer Science	Honorable Mention	Does the Accuracy of a Gyro Sensor Depend on Certain Angles?	Divya Kumar	Lake Oswego Junior High	Joe Godfrey
Medicine and Health Sciences	First Place	Are all the colors we see real or does our brain make some of them up?	Ethan Rodriguez	Bridlemile Elementary School	Larry Sherman
Medicine and Health Sciences	First Place	Concussion Discussion	Nikhil Namburi	Blanchet Catholic School	Gail Armstrong
Medicine and Health Sciences	Second Place	The Effect of Action Video Games on the Heart Rates of Middle School Students	Jacob Tyler, Shaw Powell	ACCESS Academy	Alfonso Garcia Arriola
Medicine and Health Sciences	Second Place	Sleep affecting memory	Lauren Melvin	Rosemont Ridge Middle School	Doug Samarron
Medicine and Health Sciences	Second Place	Solubility of Pills in Consumable Liquids	Gracie Nelson	Banks Middle School	Tony Richeson

Medicine and Health Sciences	Third Place	Dissolving Ibuprofen	Liam Profit	Rachel Carson Environmental Middle School	Rebecca Hall
Medicine and Health Sciences	Third Place	Can I Design a Shoe Optimal for Gait and Agility and for Parkinson's Patients?	Peter Kraakevik	Summa Whitford	Carolee Dearborn
Medicine and Health Sciences	Third Place	What is Your Addiction?	Anastasia Ives, Victoria Yates	Oregon Trail Academy	Georgi Harris
Medicine and Health Sciences	Third Place	Titrating Fruits	Ava Skubic	Summa Cedar	Winter Chung
Medicine and Health Sciences	Honorable Mention	Super Foods	Abby Puncuchar, Alexy Kennedy	Visitation School	Mrs. Carol Funk
Medicine and Health Sciences	Honorable Mention	Gender based stereotypes with spelling performance	Ting Blount, Anna Hester	Bridlemile Elementary School	Larry Sherman
Medicine and Health Sciences	Honorable Mention	Application of Wireless Charging to Pacing Devices	Angie Jiang	Summa Stoller	Todd Freiboth
Medicine and Health Sciences	Honorable Mention	Organic and Non-Organic Vitamin C: Which has more?	Udaya Balamurugan	Meadow Park Middle School	Kynah Atwood
Microbiology	First Place	Sunscreen, caffeine, or none	Molly Glad	Rosemont Ridge Middle School	Doug Samarron
Microbiology	Second Place	Dental Hygiene - A Closer Look at Oral Bacteria	Yoonis Ali	Islamic School of Portland	Annie Petrossian
Microbiology	Second Place	Creating a Cost Efficient Microbial Electrochemical Fuel Cell Using Shewanella spp	Rohan Wagh	Summa Stoller	Todd Freiboth
Microbiology	Second Place	Diseases and Their Deadliness	Duncan Soiffer	Meadow Park Middle School	Kynah Atwood
Microbiology	Third Place	Eradicating Bacteria Using Different Methods of Cooking	Mason Bagoyo	Whitford Middle School	Robin Schroeder
Microbiology	Honorable Mention	How much Bacteria is Really in our Daily Lives?	Aidan Broyles	Heritage Middle School	Karl Topping

Physics: Electromagnetic	First Place	Lights, Colors, Action!	Manavi Thakur	Valley Catholic Middle School	Sarah Zinzer
Physics: Electromagnetic	First Place	Decaying Effects of High-Frequency Electromagnetic Radio Waves	Rohan Press, Elliot Fogarty	Metro Montessori Middle School	Jonathan Erickson
Physics: Electromagnetic	Second Place	Got Headaches?	Joe Lackey	Leslie Middle School	Michael Rockow
Physics: Electromagnetic	Second Place	Lights, Camera Action!	Subisha Sundaram	Rachel Carson Environmental Middle School	Rebecca Hall
Physics: Electromagnetic	Second Place	Bluetooth LE RSSI and Distance	Jonathan Edelman	Meadow Park Middle School	Kynah Atwood
Physics: Electromagnetic	Third Place	Creating an Artificial Aurora	Emi Ricci	Leslie Middle School	Michael Rockow
Physics: Electromagnetic	Third Place	Experiments With Radiation	Mateo Stange, Ruby Minato, Eleanor Potter	Robert Gray Middle School	David Wages
Physics: Electromagnetic	Third Place	Resistance is Not Futile	Fiona Lewis	Winterhaven Middle School	Brian "Jay" Dyer
Physics: Electromagnetic	Third Place	Light displacement through varied thickness of glass	Aditya Venigalla	Mt. View Middle School	Kirk Koehler
Physics: Electromagnetic	Honorable Mention	How do we know that light can act both as a particle and a wave?	Huy Nguyen	ACCESS Academy	Alfonso Garcia Arriola
Physics: Electromagnetic	Honorable Mention	Which antenna configuration will make the most millivolts	Jonathan Tence	Athey Creek Middle School	Stephen Walsh
Physics: Electromagnetic	Honorable Mention	The Effect of the Density of a Transparent Medium on the Maximum Wavelength visible.	James Liu	Meadow Park Middle School	Kynah Atwood
Physics: Electromagnetic	Honorable Mention	Mission Efficient	Max Molyneux	Blanchet Catholic School	Gail Armstrong
Physics: Electromagnetic	Honorable Mention	How Does Sugar Content in Jell-O affect the Refractive Index?	Chuck Lu	Lake Oswego Junior High	Joe Godfrey

Physics: Electromagnetic	Honorable Mention	How can you tell the amount of sugar in a liquid using a laser?	Kai Hardesty	Sherwood Charter School	Shannon Peterka
Physics: Mechanical	First Place	Amp Your Jams	Matthew Spickelmeir	Whitford Middle School	Robin Schroeder
Physics: Mechanical	First Place	Ice	Otso Barron	Winterhaven Middle School	Jason Giles
Physics: Mechanical	Second Place	Rolling and Freefalling of Marble, Metal, Wiffle, Ping Pong, and Rubber Ball	Eric Tran	Summa Whitford	Carolee Dearborn
Physics: Mechanical	Second Place	Zip Line Acceleration	Will Leonard	Summa Cedar	Winter Chung
Physics: Mechanical	Second Place	Aerodynamics of arrows	Michael Culp, Briggs Moore	Wood Middle School	Kathryn Humm
Physics: Mechanical	Third Place	When the Puck Stops	Shai Blattner	Rachel Carson Environmental Middle School	Rebecca Hall
Physics: Mechanical	Third Place	Thermal Rubber Extensions	Alec Espig	Valley Catholic Middle School	Sarah Zinzer
Physics: Mechanical	Third Place	How Does Mass Affect the Oscillation Time of Weights in Terms of Simple Harmonic Motion?	Anushka Nair	Lake Oswego Junior High	Joe Godfrey
Physics: Mechanical	Third Place	Does Water Depth Affect Speed?	Ronan McCann	Winterhaven Middle School	Brian "jay" Dyer
Physics: Mechanical	Honorable Mention	Salty Sound	Eleanor Davis, Frances Komoda	Leslie Middle School	Michael Rockow
Physics: Mechanical	Honorable Mention	Soda and Mentos	Hamish Reed, Tre Steele, Charlie Campbell	Cascades Academy of Central Oregon	Anne-Marie Eklund
Physics: Mechanical	Honorable Mention	How does the air pressure inside a volleyball affect how high it bounces?	Ruth Hailey	Banks Middle School	Tony Richeson
Physics: Mechanical	Honorable Mention	Heat Elevator	Casmira Fox	Class Academy	Jaime Mitchell

Physics: Mechanical	Honorable Mention	How Sound Works	Emma Renn	St. Francis of Assisi School	Julia Renn
Physics: Mechanical	Honorable Mention	How Does the Mass of a Guitar Affect Sound Frequency	Christian Chyle	Lake Oswego Junior High	Joe Godfrey
Plant Sciences	First Place	Monitoring Plant Health with an Infragram Plant Camera	Bronte McKinnis	Robert Gray Middle School	David Wages
Plant Sciences	Second Place	Can Dead Leaves Save Trees?	Medha Kumar	Meadow Park Middle School	Kynah Atwood
Plant Sciences	Third Place	What color of Light do Volvox sense?	Andy Johnson	Stoller Middle School	Tom Stutzman
Plant Sciences	Honorable Mention	Which Method of Chitting Works Best for Pea Seeds?	Harry Lohr	Robert Gray Middle School	David Wages
Plant Sciences	Honorable Mention	Cultivating Algae in a Photobioreactor	Ritika Saripalli	Summa Stoller	Todd Freiboth
Plant Sciences	Honorable Mention	The Effect of RF Radiation on Marigolds	Navyatha Buddi	Meadow Park Middle School	Kynah Atwood
Army Outstanding Middle School Project	Army Research Office, U.S. Army	Experiments With Radiation	Mateo Stange, Ruby Minato, Eleanor Potter	Robert Gray Middle School	David Wages
IEEE Special Awards	IEEE Oregon	Smart Cart Seat Sensor	Abdullah Rahman	ACCESS Academy	Alfonso Garcia Arriola
IEEE Special Awards	IEEE Oregon	Low Cost Home Weather Station using Cloud Computing	Patrick Huang	Summa Whitford	Carolee Dearborn
IEEE Special Awards	IEEE Oregon	Building a System to Prevent Child Vehicular Heat Stroke Deaths	Elaine Yang	Summa Stoller	Todd Freiboth
IEEE Special Awards	IEEE Oregon	Intelligent Walking Stick for Fall Prevention among Elders	Soumik Chakraborty	Summa Stoller	Todd Freiboth
IEEE Special Awards	IEEE Oregon	Drone Rescuers	Lucie LeRutt	Class Academy	Jaime Mitchell
IEEE Special Awards	IEEE Oregon	How temperature affects a 3-D printed product	Neel Jain	Rosemont Ridge Middle School	Rebekah Rydhholm



IEEE Special Awards	IEEE Oregon	Butterfingers	Kyler Outman	Elton Gregory Middle School	Kyler Outman
Mu Alpha Theta Award	Mu Alpha Theta	Are Genetic Algorithms Really Faster Than Conventional Methods for Solving NP-hard and NP-complete Problems?	Ben Hadad	ACCESS Academy	Alfonso Garcia Arriola
Naval Excellence in Science and Engineering Award	Office of Naval Research, US Navy and Marine Corps	Lights, Camera Action!	Subisha Sundaram	Rachel Carson Environmental Middle School	Rebecca Hall
Naval Excellence in Science and Engineering Award	US Navy & USMC	Lights, Camera Action!	Subisha Sundaram	Rachel Carson Environmental Middle School	Rebecca Hall
Naval Excellence in Science and Engineering Award	Office of Naval Research, US Navy and Marine Corps	Eco-Plastics Save the Planet	Hoda AbouEich	Oregon Islamic Academy	Yusef Shari'ati
Naval Excellence in Science and Engineering Award	US Navy & USMC	Eco-Plastics Save the Planet	Hoda AbouEich	Oregon Islamic Academy	Yusef Shari'ati
Naval Excellence in Science and Engineering Award	Office of Naval Research, US Navy and Marine Corps	Predicting Distribution of Invasive Species in Oregon Using Machine Learning Techniques	Nashita Rahman	Summa Cedar	Winter Chung
Naval Excellence in Science and Engineering Award	US Navy & USMC	Predicting Distribution of Invasive Species in Oregon Using Machine Learning Techniques	Nashita Rahman	Summa Cedar	Winter Chung
Naval Excellence in Science and Engineering Award	Office of Naval Research, US Navy and Marine Corps	Mycofiltration of Chlorine in Well Water	Maren Gingerich	Baker Prairie Middle School	Tara Christian
Naval Excellence in Science and Engineering Award	US Navy & USMC	Mycofiltration of Chlorine in Well Water	Maren Gingerich	Baker Prairie Middle School	Tara Christian

Naval Excellence in Science and Engineering Award	Office of Naval Research, US Navy and Marine Corps	Creating a Cost Efficient Microbial Electrochemical Fuel Cell Using <i>Shewanella</i> spp	Rohan Wagh	Summa Stoller	Todd Freiboth
Naval Excellence in Science and Engineering Award	Office of Naval Research, US Navy and Marine Corps	Intelligent Walking Stick for Fall Prevention among Elders	Soumik Chakraborty	Summa Stoller	Todd Freiboth
Naval Excellence in Science and Engineering Award	US Navy & USMC	Creating a Cost Efficient Microbial Electrochemical Fuel Cell Using <i>Shewanella</i> spp	Rohan Wagh	Summa Stoller	Todd Freiboth
Naval Excellence in Science and Engineering Award	US Navy & USMC	Intelligent Walking Stick for Fall Prevention among Elders	Soumik Chakraborty	Summa Stoller	Todd Freiboth
Naval Excellence in Science and Engineering Award	Office of Naval Research, US Navy and Marine Corps	Effectiveness of Activated Carbon to Reduce Heavy Metal Contaminants from Water	Jasmine Guliani	Meadow Park Middle School	Kynah Atwood
Naval Excellence in Science and Engineering Award	US Navy & USMC	Effectiveness of Activated Carbon to Reduce Heavy Metal Contaminants from Water	Jasmine Guliani	Meadow Park Middle School	Kynah Atwood
Naval Excellence in Science and Engineering Award	Office of Naval Research, US Navy and Marine Corps	Novel Approach for Remediation of Flame Retardant Pollution during Wastewater Treatment	Arjun Jain	Summa Meadow	Trygve Berg
Naval Excellence in Science and Engineering Award	US Navy & USMC	Novel Approach for Remediation of Flame Retardant Pollution during Wastewater Treatment	Arjun Jain	Summa Meadow	Trygve Berg
Naval Excellence in Science and Engineering Award	Office of Naval Research, US Navy and Marine Corps	Concussion Discussion	Nikhil Namburi	Blanchet Catholic School	Gail Armstrong

Naval Excellence in Science and Engineering Award	US Navy & USMC	Concussion Discussion	Nikhil Namburi	Blanchet Catholic School	Gail Armstrong
Naval Excellence in Science and Engineering Award	Office of Naval Research, US Navy and Marine Corps	Why Don't Whales Develop Cancer? A cellular automaton simulation of cancer growth	Melinda Sun	Highland Park Summa Program	Jordan Lyden
Naval Excellence in Science and Engineering Award	US Navy & USMC	Why Don't Whales Develop Cancer? A cellular automaton simulation of cancer growth	Melinda Sun	Highland Park Summa Program	Jordan Lyden
Outstanding Aquatic Related Environmental Science Project	Lake Oswego Corporation	Stream Insect Colonization	Dhruva Sogal	Cedar Park Middle School	Melody Childers
Outstanding Geoscience Project	Association Of Women Geoscientists	Randomized Approach to Seismic Decay	Theresa D'Silva	Summa Stoller	Todd Freiboth
Outstanding Natural Resources Science Project	Pacific NW Research Station, USDA Forest Service	Does using slash and burn really fertilize soil?	Hannah Witscher	ACCESS Academy	Alfonso Garcia Arriola
Outstanding Project by a 5th Grade Student	Pacific NW Society for Coating Technology	Super Cereal	Owen Bruce	Bridlemile Elementary School	Larry Sherman
Outstanding Project by a 5th Grade Student	Pacific NW Society for Coating Technology	Have you forgotten? Factors influencing memory of text	Sasha Beebe	Bridlemile Elementary School	Larry Sherman
Outstanding Project by a 5th Grade Student	Pacific NW Society for Coating Technology	Goal!!! Penalty kick outcomes of 5th grade girls	Riley Buehler	Bridlemile Elementary School	Larry Sherman
Outstanding Project in an Atmospheric Science Exhibit	American Meteorological Society	An Analysis on the Use of Wind Turbines to Reduce Hurricane Storm Surge	Julie Chen	Leslie Middle School	Michael Rockow

Outstanding Project in an Atmospheric Science Exhibit	American Meteorological Society	Taming Tsunamis	Caleb Duyck, Dominic Funk	Visitation School	Mrs. Carol Funk
Outstanding Project in an Atmospheric Science Exhibit	American Meteorological Society	Comparing Particulate Matter and Days Absent from School	Susan McHarris	ACCESS Academy	Alfonso Garcia Arriola
Outstanding Project in an Atmospheric Science Exhibit	American Meteorological Society	The Use of Phytoremediation with Strontium for the Mitigation of Radioactive Fallout	Emma Yang	Summa Stoller	Todd Freiboth
Outstanding Project in an Atmospheric Science Exhibit	American Meteorological Society	The Effect of the Density of a Transparent Medium on the Maximum Wavelength visible.	James Liu	Meadow Park Middle School	Kynah Atwood
Outstanding Project in Water Quality	U.S. Geological Survey, Oregon Water Science Center	River Restoration	Kincaid Smeltzer	Black Butte School	Ethan Barrons
Outstanding Project in Water Quality	U.S. Geological Survey, Oregon Water Science Center	Effectiveness of Activated Carbon to Reduce Heavy Metal Contaminants from Water	Jasmine Guliani	Meadow Park Middle School	Kynah Atwood
Outstanding Project in Water Quality	U.S. Geological Survey, Oregon Water Science Center	Novel Approach for Remediation of Flame Retardant Pollution during Wastewater Treatment	Arjun Jain	Summa Meadow	Trygve Berg
Outstanding Research in Psychology	American Psychological Association	Memorizing Words Using Different Mnemonic Devices	John Nguyen	Meadow Park Middle School	Kynah Atwood
Outstanding Science or Engineering Project	U.S. Air Force	Rocket Nose Cone Designs	Christopher Lundgren, Conner Petke	Black Butte School	Ethan Barrons
Outstanding Science or Engineering Project	U.S. Air Force	iBeacons	Keri Zhou	Highland Park Summa Program	Jordan Lyden

Outstanding Science or Engineering Project	U.S. Air Force	Parachute Size vs. Descent Rate	Lucas Smith	Woodland Intermediate School	Sharlene Brown
Outstanding Use of the International System of Units	U.S. Metric Association	Gecko adhesives: a new way to make tap and bandages	Joshua Kim	Rachel Carson Environmental Middle School	Rebecca Hall
Outstanding Use of the International System of Units	U.S. Metric Association	How temperature affects a 3-D printed product	Neel Jain	Rosemont Ridge Middle School	Rebekah Rydholm
Outstanding Use of the International System of Units	U.S. Metric Association	How Does Mass Affect the Oscillation Time of Weights in Terms of Simple Harmonic Motion?	Anushka Nair	Lake Oswego Junior High	Joe Godfrey
Project Best Illustrating Surgeon General's Health Recommendations	U.S. Public Health Service	Can I Design a Shoe Optimal for Gait and Agility and for Parkinson's Patients?	Peter Kraakevik	Summa Whitford	Carolee Dearborn
Project Best Illustrating Surgeon General's Health Recommendations	U.S. Public Health Service	Variations on Short Term Memory: How do Lifestyle Habits Affect Test Performance?	Tanya Chen	Summa Stoller	Todd Freiboth
Project Best Illustrating Surgeon General's Health Recommendations	U.S. Public Health Service	Organic and Non-Organic Vitamin C: Which has more?	Udaya Balamurugan	Meadow Park Middle School	Kynah Atwood
Taking the Pulse of the Planet	National Oceanic and Atmospheric Administration	Does Water Depth Affect Speed?	Ronan McCann	Winterhaven Middle School	Brian "jay" Dyer
Tom Owen Award for Excellence in Statistics	Oregon Chapter of the American Statistical Association	Java Sprouts	Linnea Lane	Bend Science Station	Danny Martin

Tom Owen Award for Excellence in Statistics	Oregon Chapter of the American Statistical Association	Optimizing the lift to drag ratio of a landsailor's solid sail	Luka Perle	Bend Science Station	Danny Martin
Tom Owen Award for Excellence in Statistics	Oregon Chapter of the American Statistical Association	Predicting Distribution of Invasive Species in Oregon Using Machine Learning Techniques	Nashita Rahman	Summa Cedar	Winter Chung
Water Prize Award of Excellence	Water Environment Federation	Moss Filtration	Jacquelyn Molloseau	Oregon Episcopal Middle School	Christopher Mader
Water Prize Award of Excellence	Water Environment Federation	Mycofiltration of Chlorine in Well Water	Maren Gingerich	Baker Prairie Middle School	Tara Christian
Water Prize Award of Excellence	Water Environment Federation	Effectiveness of Activated Carbon to Reduce Heavy Metal Contaminants from Water	Jasmine Guliani	Meadow Park Middle School	Kynah Atwood
Water Prize Award of Excellence	Water Environment Federation	Novel Approach for Remediation of Flame Retardant Pollution during Wastewater Treatment	Arjun Jain	Summa Meadow	Trygve Berg