

Award	Sponsor	Project Title	Student	School	Teacher
Broadcom MASTERS nomination	Society for Science and the Public	Willpower Restoration	Ruby Buehler	Rachel Carson Environmental Middle School	Rebecca Hall
Broadcom MASTERS nomination	Society for Science and the Public	Approaches to Identify Novel Combinations of Natural Medicine to Treat Bacterial Infections	Ekansh Mittal	Summa Meadow	Susan Duncan & Willow Myrland
Broadcom MASTERS nomination	Society for Science and the Public	Biodegrading Gum	Arjun Malpani	Summa Meadow	Susan Duncan & Willow Myrland
Broadcom MASTERS nomination	Society for Science and the Public	Cat physics	Benjamin Dusicka	Summa Meadow	Susan Duncan & Willow Myrland
Broadcom MASTERS nomination	Society for Science and the Public	Drug Solubility	Aditya Vishwa	Summa Meadow	Susan Duncan & Willow Myrland
Broadcom MASTERS nomination	Society for Science and the Public	ANOVA (Analysis of Variance) analysis to determine what influences solar panel performance	Avni Sharma	Summa Meadow	Susan Duncan & Willow Myrland
Broadcom MASTERS nomination	Society for Science and the Public	Which method of desalination can help our civilization?	Manika Nunna	Summa Meadow	Susan Duncan & Willow Myrland
Broadcom MASTERS nomination	Society for Science and the Public	Microwave Radiation and Plant Development	Alexander Vassilev, Austin Yan	ACCESS Academy @ Lane	Alfonso Garcia Arriola
Broadcom MASTERS nomination	Society for Science and the Public	Static Friction of Bouldering Shoe Rubber: A Comparative Study	Gabriel Groom	ACCESS Academy @ Lane	Alfonso Garcia Arriola
Broadcom MASTERS nomination	Society for Science and the Public	Mycelium Growth in Varying Concentrations of Sodium Nitrate	Karina Gadbaw	Whitford Middle School	Jennifer Deeb
Broadcom MASTERS nomination	Society for Science and the Public	The Effects Of Freshwater Nutrient Pollution	Shannon Raloff	Summa Whitford	Carolee Dearborn
Broadcom MASTERS nomination	Society for Science and the Public	Soil Wars: The Mint Edition	Alison Heinly	Bend Science Station	Danny Martin
Broadcom MASTERS nomination	Society for Science and the Public	pH and the BZ Reaction	Tiadora Wisco	Bend Science Station	Danny Martin
Broadcom MASTERS nomination	Society for Science and the Public	Thinking into the Box	Hazel Sparks	Bend Science Station	Danny Martin
Broadcom MASTERS nomination	Society for Science and the Public	Phamished Phasmotodea	Kelsey Scott, Keira Wisco	Bend Science Station	Danny Martin

Broadcom MASTERS nomination	Society for Science and the Public	Does race have an affect on food allergies?	Yiyi Song	Rosemont Ridge Middle School	Jessamyn Van Hook
Broadcom MASTERS nomination	Society for Science and the Public	A Non-Invasive and Prompt Way to Detect High Levels of Uric Acid in Urine	Ameera Eshtewi	Oregon Islamic Academy	Susan Eslami
Broadcom MASTERS nomination	Society for Science and the Public	Developing a High Efficiency, Quiet Fan Propeller	Nikita Istratov	Summa Cedar	Winter Chung
Broadcom MASTERS nomination	Society for Science and the Public	Harnessing The Wind To Reduce Carbon Emissions Of Marine Transport	Arunima Deval	Summa Cedar	Winter Chung
Broadcom MASTERS nomination	Society for Science and the Public	The Sky is a Rainbow	Maia Schabel	Robert Gray Middle School	David Wages
Broadcom MASTERS nomination	Society for Science and the Public	Air Resistance Between Model Cars	Ethan Kibbee	Robert Gray Middle School	David Wages
Broadcom MASTERS nomination	Society for Science and the Public	Electric and Magnetic Fields In the Vicinity of Power Lines	Alex Plekhanov	Summa Stoller	Pam Svenson
Broadcom MASTERS nomination	Society for Science and the Public	THE PANCREAS DETECTIVE: A Novel Artificial-Intelligence-Based Post-Biopsy Tool to Screen Genetic Mutations Towards Personalizing Pancreatic Cancer Treatment	Rishab Jain	Summa Stoller	Pam Svenson
Broadcom MASTERS nomination	Society for Science and the Public	Utilizing the properties of motion and inertia to protect against concussions in american football	Ananth Namboothiry	Summa Stoller	Pam Svenson
Broadcom MASTERS nomination	Society for Science and the Public	Testing Gallium Crystals Growth at Different Temperatures	Sai Kalavai	Wood Middle School	Sarah Haefner
Broadcom MASTERS nomination	Society for Science and the Public	Lift Characteristics of Airfoils in Dynamic Flow	Alexander Schmidt	Banks Middle School	Tony Richeson
Broadcom MASTERS nomination	Society for Science and the Public	Will the Temperature Affect the Acidity of Water with a Dissolved Gas?	Stella Gibbons	Winterhaven Middle School	Brian Jay Dyer
Broadcom MASTERS nomination	Society for Science and the Public	Two Major Global Issues and One Solution to Solve Both	Mirja Rebaum	Stoller Middle School	Pamela Svenson

Broadcom MASTERS nomination	Society for Science and the Public	What color is this? - Developing a Wavelength-Shifting material to aid the Color Blind	Vladie Mamchik	J.W. Poynter Middle School	Alexander Mamchik
Broadcom MASTERS nomination	Society for Science and the Public	Discovery and Exploration of Fractal patterns hidden in a Pascal's Triangle!	Shreyan Paliwal	Carden Cascade Academy	Steve Page
Broadcom MASTERS nomination	Society for Science and the Public	Water Heating System Re-imagined	Trinidad Marin-Quiros	Lakeridge Junior High School	Luis Marin
Broadcom MASTERS nomination	Society for Science and the Public	Effects of Roadside Pollution on Photosynthesis	Claire Hunsberger	The Marylhurst School	Emily Ramirez
Broadcom MASTERS nomination	Society for Science and the Public	What is the amount of vitamin C in different Orange juices? Does Vitamin C decrease over time?	Joseph Hsin	International School of Beaverton Middle School	Georgi Harris
Broadcom MASTERS nomination	Society for Science and the Public	Design and Development of Nosocomial Infection Prevention and Monitoring System	Samyak Shrimali	Valley Catholic Middle School	Satish Shrimali
Broadcom MASTERS nomination	Society for Science and the Public	Non-Ionizing Radiation in the Home and How to Minimize It	Twyla Colburn, Colby Reed	Corbett Middle School	Kathy Childress
Broadcom MASTERS nomination	Society for Science and the Public	Effects of water quality on the biodiversity and breeding success of aquatic amphibians	Bronwyn Allabastro, Zoe Vanderwall	Hosford Middle School	Jonathan Davies
Broadcom MASTERS nomination	Society for Science and the Public	Antibacterial Effect of Nanoparticles Compared to Conventional Medications on E. coli Bacteria	Shriya Myneni	Valley Catholic Middle School	Bharathi Devi Myneni
Broadcom MASTERS nomination	Society for Science and the Public	Which Cleans Best?	Lyon Blomberg	Meridian Creek Middle School	Mashawna Miller
6th Grade Special Awards	Alpha Delta Kappa	Cat physics	Benjamin Dusicka	Summa Meadow	Susan Duncan & Willow Myrland
6th Grade Special Awards	Alpha Delta Kappa	Biodegrading Gum	Arjun Malpani	Summa Meadow	Susan Duncan & Willow Myrland
6th Grade Special Awards	Alpha Delta Kappa	The Smart Stick	Keshav Arora	Summa Meadow	Susan Duncan & Willow Myrland
6th Grade Special Awards	Alpha Delta Kappa	Phamished Phasmotodea	Kelsey Scott, Keira Wisco	Bend Science Station	Danny Martin
6th Grade Special Awards	Alpha Delta Kappa	Extraordinary Crystals	Chloe Trapp	St. Francis School	Alison Green

6th Grade Special Awards	Alpha Delta Kappa	Batteries Not Included	Mya Schumacher	St. Mary Catholic School	Michelle Heuberger
6th Grade Special Awards	Alpha Delta Kappa	Automatic Monitoring of Backpack Weight Safety Level	Susan Moseley	Stoller Middle School	Pamela Svenson
6th Grade Special Awards	Alpha Delta Kappa	Eradicating Bacteria With the Use of Antibacterial and Heat Combined	SaiHarshith Kodali	Stoller Middle School	Pamela Svenson
6th Grade Special Awards	Alpha Delta Kappa	Discovery and Exploration of Fractal patterns hidden in a Pascal's Triangle!	Shreyan Paliwal	Carden Cascade Academy	Steve Page
6th Grade Special Awards	Alpha Delta Kappa	Sound and Lasers	Liam Ledesma	Meadow Park Middle School	YennyTatiana SanchezSarmiento
6th Grade Special Awards	Alpha Delta Kappa	Wind Turbine	Julia Behunin, Aiden Rogers	Meadow Park Middle School	YennyTatiana SanchezSarmiento
Outstanding Project in an Atmospheric Science Exhibit	American Meteorological Society	Effect of Albedo on Thermal Radiation	Leah Gulick	Rachel Carson Environmental Middle School	Rebecca Hall
Outstanding Project in an Atmospheric Science Exhibit	American Meteorological Society	Impact of Air Quality on Temperature in Cities in the United States	Naomi Fertig	ACCESS Academy @ Lane	Alfonso Garcia Arriola
Outstanding Project in an Atmospheric Science Exhibit	American Meteorological Society	Greenhouse Gas Emissions, Sea Surface Temperature, and Hurricanes in the Atlantic Ocean	Ben Amos	Summa Whitford	Carolee Dearborn
Outstanding Project in an Atmospheric Science Exhibit	American Meteorological Society	The Correlation of Ocean Temperature and Snowfall Amounts	Sydney Hildebrand, Ava Horton	Corbett Middle School	Kathy Childress
Outstanding Research in Psychology	American Psychological Association	Fortnite all Night	Riham Mohamed	Islamic School of Portland	Nura Elmagbari
Outstanding Research in Psychology	American Psychological Association	Time Flies	Sam Roche	International School of Beaverton Middle School	Georgi Harris
Outstanding Geoscience Project	Association Of Women Geoscientists	Effect of Albedo on Thermal Radiation	Leah Gulick	Rachel Carson Environmental Middle School	Rebecca Hall
Outstanding Geoscience Project	Association Of Women Geoscientists	Which method of desalination can help our civilization?	Manika Nunna	Summa Meadow	Susan Duncan & Willow Myrland

Outstanding Geoscience Project	Association Of Women Geoscientists	Impact of Air Quality on Temperature in Cities in the United States	Naomi Fertig	ACCESS Academy @ Lane	Alfonso Garcia Arriola
Outstanding Geoscience Project	Association Of Women Geoscientists	Will the Temperature Affect the Acidity of Water with a Dissolved Gas?	Stella Gibbons	Winterhaven Middle School	Brian Jay Dyer
Outstanding Geoscience Project	Association Of Women Geoscientists	The Correlation of Ocean Temperature and Snowfall Amounts	Sydney Hildebrand, Ava Horton	Corbett Middle School	Kathy Childress
IEEE Special Awards	IEEE Oregon	The Smart Stick	Keshav Arora	Summa Meadow	Susan Duncan & Willow Myrland
IEEE Special Awards	IEEE Oregon	Evaluating Algorithm for Solving Mazes	Yaseen Osman	Oregon Islamic Academy	Susan Eslami
IEEE Special Awards	IEEE Oregon	How Carbon Dioxide Levels Affect Energy Production	Inbaa Chennai, Alex Redshaw	Summa Cedar	Winter Chung
IEEE Special Awards	IEEE Oregon	The effect of different materials on DML frequency response	Finn Suchara	Robert Gray Middle School	David Wages
IEEE Special Awards	IEEE Oregon	Electric and Magnetic Fields In the Vicinity of Power Lines	Alex Plekhanov	Summa Stoller	Pam Svenson
IEEE Special Awards	IEEE Oregon	Discovery and Exploration of Fractal patterns hidden in a Pascal's Triangle!	Shreyan Paliwal	Carden Cascade Academy	Steve Page
IEEE Special Awards	IEEE Oregon	Train Track Breakage Detection	Vedant Pawar	International School of Beaverton Middle School	Georgi Harris
IEEE Special Awards	IEEE Oregon	Design and Development of Nosocomial Infection Prevention and Monitoring System	Samyak Shrimali	Valley Catholic Middle School	Satish Shrimali
Outstanding Aquatic Related Environmental Science Project	Lake Oswego Corporation	Acid Radish, Acid Rain?	Ronan Repasky	Class Academy	Colette Dehart
Mu Alpha Theta Award	Mu Alpha Theta	Exploring Fractal Curves	Suyash Pandit	Summa Cedar	Winter Chung
Mu Alpha Theta Award	Mu Alpha Theta	Discovery and Exploration of Fractal patterns hidden in a Pascal's Triangle!	Shreyan Paliwal	Carden Cascade Academy	Steve Page
NASA Earth System Science Award	NASA		Aiden Perpelitt	Delphian MS	Diego Martinez

NASA Earth System Science Award	NASA	The Relation Between Solar Cycles and Seismic Events	Aron Wang	Stoller Middle School	Pamela Svenson
Taking the Pulse of the Planet	National Oceanic and Atmospheric Administration	Ocean Current Effects on Marine Microplastics on the Central Oregon Coast	Mia Madland	Leslie Middle School	Mark Madland
Taking the Pulse of the Planet	National Oceanic and Atmospheric Administration	Can calcium carbonate help prevent the effects of ocean acidification?	Grace Breger	Winterhaven Middle School	Brian Jay Dyer
Naval Excellence in Science and Engineering Award	Office of Naval Research, US Navy and Marine Corps	Which method of desalination can help our civilization?	Manika Nunna	Summa Meadow	Susan Duncan & Willow Myrland
Naval Excellence in Science and Engineering Award	Office of Naval Research, US Navy and Marine Corps	How Does The Magnetic Array of a Maglev Train Affect Maximum Carrying Capacity and Levitation Height	Jake Yun, Ely Cunningham	ACCESS Academy @ Lane	Alfonso Garcia Arriola
Naval Excellence in Science and Engineering Award	Office of Naval Research, US Navy and Marine Corps	Kites: Powering the Future	Dylan Nguyen	Rosemont Ridge Middle School	Jessamyn Van Hook
Naval Excellence in Science and Engineering Award	Office of Naval Research, US Navy and Marine Corps	Bioplastics	Noor Aboueich	Oregon Islamic Academy	Susan Eslami
Naval Excellence in Science and Engineering Award	Office of Naval Research, US Navy and Marine Corps	An optimization of atmospheric carbon sequestration through household furnace filters	John Madland, Mihir Joshi	Leslie Middle School	Mark Madland
Naval Excellence in Science and Engineering Award	Office of Naval Research, US Navy and Marine Corps	Sandy Sounds	JJ LaDue, Hap Freres	Abiqua Academy	David Dittman
Tom Owen Award for Excellence in Statistics	Oregon Chapter of the American Statistical Association	ANOVA (Analysis of Variance) analysis to determine what influences solar panel performance	Avni Sharma	Summa Meadow	Susan Duncan & Willow Myrland
Tom Owen Award for Excellence in Statistics	Oregon Chapter of the American Statistical Association	The Effects Of Freshwater Nutrient Pollution	Shannon Raloff	Summa Whitford	Carolee Dearborn

Tom Owen Award for Excellence in Statistics	Oregon Chapter of the American Statistical Association	THE PANCREAS DETECTIVE: A Novel Artificial-Intelligence-Based Post-Biopsy Tool to Screen Genetic Mutations Towards Personalizing Pancreatic Cancer Treatment	Rishab Jain	Summa Stoller	Pam Svenson
Outstanding Natural Resources Science Project	Pacific NW Research Station, USDA Forest Service	The Effect of Smoke Particles On Plants	Lucas Blank	Rachel Carson Environmental Middle School	Rebecca Hall
Outstanding Project by a 5th Grade Student	Pacific NW Society for Coating Technology	Studying Chicken Egg Laying Behavior in Winter	Francis Vowels	Bridlemile Elementary School	Larry Sherman
Outstanding Project by a 5th Grade Student	Pacific NW Society for Coating Technology	Graffiti at my school, not anymore!	Joseph Moylan	Bridlemile Elementary School	Larry Sherman
Outstanding Project by a 5th Grade Student	Pacific NW Society for Coating Technology	Origami Solar	Sahit Jayaweera	Bonny Slope	Ruwan Jayaweera
Outstanding Project by a 5th Grade Student	Pacific NW Society for Coating Technology	Shaking Up Some Energy!	Omar Abdeljawad	Islamic School of Portland Elementary	Annie Petrossian
Ricoh Sustainable Development Award	Ricoh Corporation	Kites: Powering the Future	Dylan Nguyen	Rosemont Ridge Middle School	Jessamyn Van Hook
Ricoh Sustainable Development Award	Ricoh Corporation	How to get energy more efficiently from hydropower systems	Wyatt Klinger	Athey Creek Middle School	Ian Stober
Samyak Science Society Excellence in STEAM Award	Samyak Science Society	Approaches to Identify Novel Combinations of Natural Medicine to Treat Bacterial Infections	Ekansh Mittal	Summa Meadow	Susan Duncan & Willow Myrland
Samyak Science Society Excellence in STEAM Award	Samyak Science Society	What color is this? - Developing a Wavelength-Shifting material to aid the Color Blind	Vladie Mamchik	J.W. Poynter Middle School	Alexander Mamchik
Outstanding Air Quality Project	Southwest Clean Air Agency	Air Pollution in Portland	Max Osterhaus	Class Academy	Colette Dehart
The Lemelson Early Inventor Prize	The Lemelson Foundation	Two Major Global Issues and One Solution to Solve Both	Mirja Rebaum	Stoller Middle School	Pamela Svenson

Outstanding Science or Engineering Project	U.S. Air Force	Considering Solely Mass and Aerofynamics, Which Tri-Met MAX Car Type is Most Energy Efficient and Conducive to Solar Energy	Catcher Kemmerer	ACCESS Academy @ Lane	Alfonso Garcia Arriola
Outstanding Science or Engineering Project	U.S. Air Force	Lift Those Wings	Ruben Yoder	Summa Whitford	Carolee Dearborn
Outstanding Science or Engineering Project	U.S. Air Force	Creating Hydrogen from Solar Power	Ben Gillette	Summa Cedar	Winter Chung
Outstanding Science or Engineering Project	U.S. Air Force	Electrochemical Reduction of Carbon Dioxide with Microwave Treated Electrocatalysts	Autri Das	Summa Stoller	Pam Svenson
Outstanding Project in Water Quality	U.S. Geological Survey, Oregon Water Science Center	The All Green Water Filter	Chenoa Baurer	Leslie Middle School	Michael Rockow
Outstanding Project in Water Quality	U.S. Geological Survey, Oregon Water Science Center	Chemical and Mineral Sunscreen in Aquatic Plants	Isabella Ayres	Rachel Carson Environmental Middle School	Rebecca Hall
Outstanding Project in Water Quality	U.S. Geological Survey, Oregon Water Science Center	How does the temperature of water affect how much dissolved oxygen it contains?	Esme Illing	Winterhaven Middle School	Brian Jay Dyer
Outstanding Use of the International System of Units	U.S. Metric Association	Electromagnetic House	Eesa Taylor	Islamic School of Portland	Nura Elmagbari
Outstanding Use of the International System of Units	U.S. Metric Association	Water Heating System Re-imagined	Trinidad Marin-Quiros	Lakeridge Junior High School	Luis Marin
Outstanding Use of the International System of Units	U.S. Metric Association	Non-Ionizing Radiation in the Home and How to Minimize It	Twyla Colburn, Colby Reed	Corbett Middle School	Kathy Childress
Naval Excellence in Science and Engineering Award	US Navy & USMC	Which method of desalination can help our civilization?	Manika Nunna	Summa Meadow	Susan Duncan & Willow Myrland

Naval Excellence in Science and Engineering Award	US Navy & USMC	How Does The Magnetic Array of a Maglev Train Affect Maximum Carrying Capacity and Levitation Height	Jake Yun, Ely Cunningham	ACCESS Academy @ Lane	Alfonso Garcia Arriola
Naval Excellence in Science and Engineering Award	US Navy & USMC	Kites: Powering the Future	Dylan Nguyen	Rosemont Ridge Middle School	Jessamyn Van Hook
Naval Excellence in Science and Engineering Award	US Navy & USMC	Bioplastics	Noor Aboueich	Oregon Islamic Academy	Susan Eslami
Naval Excellence in Science and Engineering Award	US Navy & USMC	An optimization of atmospheric carbon sequestration through household furnace filters	John Madland, Mihir Joshi	Leslie Middle School	Mark Madland
Naval Excellence in Science and Engineering Award	US Navy & USMC	Sandy Sounds	JJ LaDue, Hap Freres	Abiqua Academy	David Dittman
Water Prize Award of Excellence	Water Environment Federation	Which method of desalination can help our civilization?	Manika Nunna	Summa Meadow	Susan Duncan & Willow Myrland
Water Prize Award of Excellence	Water Environment Federation	Nitrogen Filtration of Bioswale Plants	Malia Lee, Elizabeth Wickline	ACCESS Academy @ Lane	Alfonso Garcia Arriola
Water Prize Award of Excellence	Water Environment Federation	Outstanding Filter: Developing a cheap homemade filter to remove chemicals from water	Catherine Hyde	Silverton Middle School	Daniel Jamsa
Water Prize Award of Excellence	Water Environment Federation	Lake Eutrophication	Kaden Stehr	Yamhill Carlton School District	Lisa Jacobs
Water Prize Award of Excellence	Water Environment Federation	Microplastics: Where Do We Even Begin?	Kyle Hanson	Whitford Middle School	Steve Cantor
Water Prize Award of Excellence	Water Environment Federation	Acid Radish, Acid Rain?	Ronan Repasky	Class Academy	Colette Dehart

2019 Intel NWSE Middle School Category Awards

Category	Place	Title	Student List	Organization	Teacher
Animal Sciences	First Place	Effects of water quality on the biodiversity and breeding success of aquatic amphibians	Bronwyn Allabastro, Zoe Vanderwall	Hosford Middle School	Jonathan Davies
Animal Sciences	Second Place	The Effects Of Freshwater Nutrient Pollution	Shannon Raloff	Summa Whitford	Carolee Dearborn
Animal Sciences	Second Place	Phamished Phasmotodea	Kelsey Scott, Keira Wisco	Bend Science Station	Danny Martin
Animal Sciences	Third Place	Can My Bird Keep a Beat?	Rose Farrens	ACCESS Academy @ Lane	Alfonso Garcia Arriola
Animal Sciences	Honorable Mention	Feline Plasma Cell Pododermatitis	Kristof Klees	Cascades Academy of Central Oregon	Anne-Marie Eklund
Behavioral and Social Science	First Place	The Bullying Game	Madeline Santoso	Athey Creek Middle School	Ian Stober
Behavioral and Social Science	Second Place	Willpower Restoration	Ruby Buehler	Rachel Carson Environmental Middle School	Rebecca Hall
Behavioral and Social Science	Second Place	Thinking into the Box	Hazel Sparks	Bend Science Station	Danny Martin
Behavioral and Social Science	Third Place	How Does Activity Affect Test Scores?	Chloe Harris, Lucy Mullins, Louisa Lamarre	Cascades Academy of Central Oregon	Anne-Marie Eklund
Behavioral and Social Science	Third Place	One text or call could wreck it all	Jack Vandehey	Banks Middle School	Tony Richeson
Behavioral and Social Science	Third Place	Under Pressure: The Impact of Peers	Clara Michaux, Madison Young	Abiqua Academy	David Dittman
Behavioral and Social Science	Honorable Mention	Are Stop Signs Effective?	Kalista Whildin	ACCESS Academy @ Lane	Alfonso Garcia Arriola
Behavioral and Social Science	Honorable Mention	Gender vs. Emotional Contagion	Elise Narimatsu, Winston Liang	Summa Whitford	Carolee Dearborn
Behavioral and Social Science	Honorable Mention	How light amount affects the noise level	Lauren Ortega	Silverton Middle School	Daniel Jamsa
Behavioral and Social Science	Honorable Mention	Does Exposure To Certain Objects/Ideas Affect What You See In An Optical Illusion?	Avani Mohindra	Abiqua Academy	David Dittman
Chemistry	First Place	What color is this? - Developing a Wavelength-Shifting material to aid the Color Blind	Vladie Mamchik	J.W. Poynter Middle School	Alexander Mamchik
Chemistry	Second Place	Biodegrading Gum	Arjun Malpani	Summa Meadow	Susan Duncan & Willow Myrland
Chemistry	Second Place	pH and the BZ Reaction	Tiadora Wisco	Bend Science Station	Danny Martin
Chemistry	Third Place	A method to reduce CO2 in our atmosphere	Shaylee Smith	Leslie Middle School	Michael Rockow

Chemistry	Third Place		Lucas Curry	Delphian MS	Diego Martinez
Chemistry	Third Place	The Science Of Bubbleolgy	Sophia Levesque, Cassidy Yourg	Wood Middle School	Sarah Haefner
Chemistry	Honorable Mention	The Lactase Race	Dahlia Lee	Winterhaven Middle School	William Thompson
Chemistry	Honorable Mention	How Can Gel Electrophoresis Show the Difference Between Colors of Food Dye?	Payton Zagacki	Lake Oswego Junior High	Joe Godfrey
Chemistry	Honorable Mention	How does the quantity of Ammonium Nitrate affect the temperature of water?	Eli Stabler	Winterhaven Middle School	Brian Jay Dyer
Chemistry	Honorable Mention	Plaque Attack	Isabella Hawley	Class Academy	Colette Dehart
Consumer Products Testing	First Place	What is the amount of vitamin C in different Orange juices? Does Vitamin C decrease over time?	Joseph Hsin	International School of Beaverton Middle School	Georgi Harris
Consumer Products Testing	Second Place	Green Tea Lab	Maisy Fisher	Leslie Middle School	Michael Rockow
Consumer Products Testing	Second Place	How does branding affect middle school student's perception of value and taste?	Trillian Hawley, Avery Lord	Silverton Middle School	Daniel Jamsa
Consumer Products Testing	Third Place	Graffiti at my school, not anymore!	Joseph Moylan	Bridlemile Elementary School	Larry Sherman
Consumer Products Testing	Third Place	Natural vs. Commercial Waterproofing	Kaya Hoshi	Bend Science Station	Danny Martin
Consumer Products Testing	Third Place	Which Glue is stronger? Homemade glue or store bought glue	Siddharth Sundaram, Duncan Duffield	Rosemont Ridge Middle School	Jessamyn Van Hook
Consumer Products Testing	Honorable Mention	A Dash of Salt and a Pinch of Plastic	Tessa Connor	Rachel Carson Environmental Middle School	Rebecca Hall
Consumer Products Testing	Honorable Mention	Here Comes the Sun! Testing the Effectiveness of Inorganic and Organic Sunscreens	Ainsley Porter	Bridlemile Elementary School	Larry Sherman
Consumer Products Testing	Honorable Mention	Waterproof or not!?!?	Evelyn Morlan, Emma Huberty	Rosemont Ridge Middle School	Jessamyn Van Hook

Consumer Products Testing	Honorable Mention	An Eggcellent Experiment	Daniel Hadi	International School of Beaverton Middle School	Georgi Harris
Earth Science	First Place	Testing Gallium Crystals Growth at Different Temperatures	Sai Kalavai	Wood Middle School	Sarah Haefner
Earth Science	Second Place	Which method of desalination can help our civilization?	Manika Nunna	Summa Meadow	Susan Duncan & Willow Myrland
Earth Science	Second Place	Will the Temperature Affect the Acidity of Water with a Dissolved Gas?	Stella Gibbons	Winterhaven Middle School	Brian Jay Dyer
Earth Science	Third Place	Effect of Albedo on Thermal Radiation	Leah Gulick	Rachel Carson Environmental Middle School	Rebecca Hall
Earth Science	Third Place		Aiden Perpelitt	Delphian MS	Diego Martinez
Earth Science	Third Place	The Relation Between Solar Cycles and Seismic Events	Aron Wang	Stoller Middle School	Pamela Svenson
Earth Science	Honorable Mention	Impact of Air Quality on Temperature in Cities in the United States	Naomi Fertig	ACCESS Academy @ Lane	Alfonso Garcia Arriola
Earth Science	Honorable Mention	Greenhouse Gas Emissions, Sea Surface Temperature, and Hurricanes in the Atlantic Ocean	Ben Amos	Summa Whitford	Carolee Dearborn
Earth Science	Honorable Mention	How can you use pressure to help predict an earthquake?	David Burt	Athey Creek Middle School	Ian Stober
Earth Science	Honorable Mention	The Correlation of Ocean Temperature and Snowfall Amounts	Sydney Hildebrand, Ava Horton	Corbett Middle School	Kathy Childress
Energy	First Place	Kites: Powering the Future	Dylan Nguyen	Rosemont Ridge Middle School	Jessamyn Van Hook
Energy	Second Place	ANOVA (Analysis of Variance) analysis to determine what influences solar panel performance	Avni Sharma	Summa Meadow	Susan Duncan & Willow Myrland
Energy	Second Place	Water Heating System Re-imagined	Trinidad Marin-Quiros	Lakeridge Junior High School	Luis Marin
Energy	Third Place	Solar Cell Efficiency With Light Color	Tobin Geren-Mori	Summa Whitford	Carolee Dearborn

Energy	Third Place	Improving the Efficiency of Solar Panels	Surabhi Sharma	Summa Stoller	Pam Svenson
Energy	Third Place	Origami Solar	Sahit Jayaweera	Bonny Slope	Ruwan Jayaweera
Energy	Honorable Mention	bacteriolysis electrolysis	Miles Galvin	Rachel Carson Environmental Middle School	Rebecca Hall
Energy	Honorable Mention	Exploring Food Batteries: Differences in Voltage Based on Food Type and Temperature Ranges	Dylan Wagner	Bridlemile Elementary School	Larry Sherman
Energy	Honorable Mention	Creating Hydrogen from Solar Power	Ben Gillette	Summa Cedar	Winter Chung
Energy	Honorable Mention	Saltwater Battery - An Earth Friendly Alternative	Sydney Ong	Stoller Middle School	Pamela Svenson
Engineering	First Place	Two Major Global Issues and One Solution to Solve Both	Mirja Rebaum	Stoller Middle School	Pamela Svenson
Engineering	Second Place	Developing a High Efficiency, Quiet Fan Propeller	Nikita Istratov	Summa Cedar	Winter Chung
Engineering	Second Place	Lift Characteristics of Airfoils in Dynamic Flow	Alexander Schmidt	Banks Middle School	Tony Richeson
Engineering	Third Place	A Real-Time Approach to Improve Automobile Stability by Estimating the Tire-Road Coefficient of Friction Using a Three Axis Accelerometer	Ishan Ahluwalia	Summa Stoller	Pam Svenson
Engineering	Third Place	Electromagnetic House	Eesa Taylor	Islamic School of Portland	Nura Elmagbari
Engineering	Third Place	Chamber Danger	Lukas Klotz	Abiqua Academy	David Dittman
Engineering	Honorable Mention	3D Visual Illusion Crosswalk Design as a Tool for Improving School Zones Safety	Gregory Carney	Summa Whitford	Carolee Dearborn
Engineering	Honorable Mention		Emilio Martinez	Delphian MS	Diego Martinez
Engineering	Honorable Mention	Bridges to a Better World	Tyler Schumacher	St. Mary Catholic School	Michelle Heuberger
Engineering	Honorable Mention	Train Track Breakage Detection	Vedant Pawar	International School of Beaverton Middle School	Georgi Harris

Engineering: Mechanical	First Place	Harnessing The Wind To Reduce Carbon Emissions Of Marine Transport	Arunima Deval	Summa Cedar	Winter Chung
Engineering: Mechanical	Second Place	Outstanding Filter: Developing a cheap homemade filter to remove chemicals from water	Catherine Hyde	Silverton Middle School	Daniel Jamsa
Engineering: Mechanical	Second Place	Utilizing the properties of motion and inertia to protect against concussions in american football	Ananth Namboothiry	Summa Stoller	Pam Svenson
Engineering: Mechanical	Third Place	Lift Those Wings	Ruben Yoder	Summa Whitford	Carolee Dearborn
Engineering: Mechanical	Third Place	The Effect of Magnetic Systems on Damage to Buildings by Earthquakes	Eisuke Hirota	Summa Stoller	Pam Svenson
Engineering: Mechanical	Third Place	Build a Helping Hand	Riley Loughran	Class Academy	Colette Dehart
Engineering: Mechanical	Honorable Mention	Plastic-Free Ocean	Henry Anderson	Rachel Carson Environmental Middle School	Rebecca Hall
Engineering: Mechanical	Honorable Mention	Removing microplastics and other particulate pollutants from rivers	Uma Grover	Rosemont Ridge Middle School	Jessamyn Van Hook
Engineering: Mechanical	Honorable Mention	Automatic Monitoring of Backpack Weight Safety Level	Susan Moseley	Stoller Middle School	Pamela Svenson
Engineering: Mechanical	Honorable Mention	A fingerprint-based attendance system .	Shreya Ragade	International School of Beaverton Middle School	Georgi Harris
Environmental Science	First Place	Mycelium Growth in Varying Concentrations of Sodium Nitrate	Karina Gadbaw	Whitford Middle School	Jennifer Deeb
Environmental Science	Second Place	An optimization of atmospheric carbon sequestration through household furnace filters	John Madland, Mihir Joshi	Leslie Middle School	Mark Madland
Environmental Science	Second Place	Effects of Roadside Pollution on Photosynthesis	Claire Hunsberger	The Marylhurst School	Emily Ramirez
Environmental Science	Third Place	How does the temperature of water affect how much dissolved oxygen it contains?	Esme Illing	Winterhaven Middle School	Brian Jay Dyer

Environmental Science	Third Place	Earth, Water, or Sun: Natural ways to heat a greenhouse	Ellie Fromwiller, Anna Welter	Blanchet Catholic School	Micki Halsey Randall, Ph.D.
Environmental Science	Third Place	Acid Radish, Acid Rain?	Ronan Repasky	Class Academy	Colette Dehart
Environmental Science	Honorable Mention	The Impact of Chlorella Vulgaris and Common Household Materials on Carbon Dioxide Reduction	Yusuf Arifin	Summa Cedar	Winter Chung
Environmental Science	Honorable Mention	Ocean Current Effects on Marine Microplastics on the Central Oregon Coast	Mia Madland	Leslie Middle School	Mark Madland
Environmental Science	Honorable Mention	Lake Eutrophication	Kaden Stehr	Yamhill Carlton School District	Lisa Jacobs
Environmental Science	Honorable Mention	Off the Beaten Path: Does Off-Trail Hiking Disturb Future Forests?	Sophia Stoeber	The Marylhurst School	Emily Ramirez
Mathematics and Computer Science	First Place	Discovery and Exploration of Fractal patterns hidden in a Pascal's Triangle!	Shreyan Paliwal	Carden Cascade Academy	Steve Page
Mathematics and Computer Science	Second Place	A Non-Invasive and Prompt Way to Detect High Levels of Uric Acid in Urine	Ameera Eshtewi	Oregon Islamic Academy	Susan Eslami
Mathematics and Computer Science	Second Place	Design and Development of Nosocomial Infection Prevention and Monitoring System	Samyak Shrimali	Valley Catholic Middle School	Satish Shrimali
Mathematics and Computer Science	Third Place	The Smart Stick	Keshav Arora	Summa Meadow	Susan Duncan & Willow Myrland
Mathematics and Computer Science	Third Place	Unbeatable Tic-tac-toe	Gitanjali Valiyaveetil	Summa Whitford	Carolee Dearborn
Mathematics and Computer Science	Third Place	Evaluating Algorithm for Solving Mazes	Yaseen Osman	Oregon Islamic Academy	Susan Eslami
Mathematics and Computer Science	Honorable Mention	Developing A Smart Bandage Using a Temperature and Moisture Sensor	Janani Maheswaran	Summa Meadow	Susan Duncan & Willow Myrland
Mathematics and Computer Science	Honorable Mention	Profanity Filter Discord Bot	Cole Harper	Whitford Middle School	Jennifer Deeb
Mathematics and Computer Science	Honorable Mention	Exploring Fractal Curves	Suyash Pandit	Summa Cedar	Winter Chung

Mathematics and Computer Science	Honorable Mention	Creating an App That Uses DeepMind AI, Machine Learning, and Augmented Reality To Improve the Communication Between Deaf and Hearing	Tejaswani Datla	Summa Stoller	Pam Svenson
Medicine and Health Sciences	First Place	THE PANCREAS DETECTIVE: A Novel Artificial-Intelligence-Based Post-Biopsy Tool to Screen Genetic Mutations Towards Personalizing Pancreatic Cancer Treatment	Rishab Jain	Summa Stoller	Pam Svenson
Medicine and Health Sciences	Second Place	Drug Solubility	Aditya Vishwa	Summa Meadow	Susan Duncan & Willow Myrland
Medicine and Health Sciences	Second Place	Does race have an affect on food allergies?	Yiyi Song	Rosemont Ridge Middle School	Jessamyn Van Hook
Medicine and Health Sciences	Third Place	Bacteria Survivability from Exposure to Nicotine-Containing JUUL pods	Eric Verheyden	Cascades Academy of Central Oregon	Anne-Marie Eklund
Medicine and Health Sciences	Third Place	Fat Mice Like Sugar?	Heba Bader	Abiqua Academy	David Dittman
Medicine and Health Sciences	Third Place	Eradicating Bacteria With the Use of Antibacterial and Heat Combined	SaiHarshith Kodali	Stoller Middle School	Pamela Svenson
Medicine and Health Sciences	Honorable Mention	Denaturing Proteins	Annabelle Tompkins	Rachel Carson Environmental Middle School	Rebecca Hall
Medicine and Health Sciences	Honorable Mention	Sleep Quality and Blue Light	Anna Soose	Rosemont Ridge Middle School	Jessamyn Van Hook
Medicine and Health Sciences	Honorable Mention	Soda vs. Coffee	Eban Moline, Stella Totland	Cascades Academy of Central Oregon	Anne-Marie Eklund
Medicine and Health Sciences	Honorable Mention	Vape vs Smoke: The Effects of Each on Blood Pressure, Blood Oxygen and Heart Rate.	Fadel Barhum, Ibrahim Jama, Abdulkadir Abdulkadir	Islamic School of Portland	Nura Elmagbari
Microbiology	First Place	Approaches to Identify Novel Combinations of Natural Medicine to Treat Bacterial Infections	Ekansh Mittal	Summa Meadow	Susan Duncan & Willow Myrland

Microbiology	Second Place	Antibacterial Effect of Nanoparticles Compared to Conventional Medications on E. coli Bacteria	Shriya Myneni	Valley Catholic Middle School	Bharathi Devi Myneni
Microbiology	Second Place	Which Cleans Best?	Lyon Blomberg	Meridian Creek Middle School	Mashawna Miller
Microbiology	Third Place	Sterilization of Locally Sourced Water in the Event of an Earthquake	Ayla Shores	Whitford Middle School	Jennifer Deeb
Microbiology	Third Place	Slimy Secrets: What's Living in Your Slime?	Khadija Reda	Islamic School of Portland	Nura Elmagbari
Microbiology	Third Place	Testing the Disinfection Efficiency of Herbal Antiseptics v.s Synthetic Antiseptics	Nilani Maheswaran	Stoller Middle School	Pamela Svenson
Microbiology	Honorable Mention	Silver Nanoparticles V.S. Bacteria and Fungi	Karina Murai	Summa Whitford	Carolee Dearborn
Microbiology	Honorable Mention	Bacteria on Doorknobs	Hunter VandenBosch, Ethan Farrow	Cascades Academy of Central Oregon	Anne-Marie Eklund
Microbiology	Honorable Mention	GMO vs Non-GMO: Which Do Bacteria Prefer?	Abdulrahman Aljundi	Islamic School of Portland	Nura Elmagbari
Microbiology	Honorable Mention	Riesling Reigns	Hannah Watson	Banks Middle School	Tony Richeson
Physics: Electromagnetic	First Place	The Sky is a Rainbow	Maia Schabel	Robert Gray Middle School	David Wages
Physics: Electromagnetic	Second Place	Electric and Magnetic Fields In the Vicinity of Power Lines	Alex Plekhanov	Summa Stoller	Pam Svenson
Physics: Electromagnetic	Second Place	Non-Ionizing Radiation in the Home and How to Minimize It	Twyla Colburn, Colby Reed	Corbett Middle School	Kathy Childress
Physics: Electromagnetic	Third Place	How Does The Magnetic Array of a Maglev Train Affect Maximum Carrying Capacity and Levitation Height	Jake Yun, Ely Cunningham	ACCESS Academy @ Lane	Alfonso Garcia Arriola
Physics: Electromagnetic	Third Place	How Does Heat Affect the Strength of a Magnet?	Millar Clee	Lake Oswego Junior High	Joe Godfrey
Physics: Electromagnetic	Third Place	Sound and Lasers	Liam Ledesma	Meadow Park Middle School	YennyTatiana SanchezSarmiento
Physics: Electromagnetic	Honorable Mention	Effect of Temperature Variance on Strength of Permanent Magnets	Eleanor Lee, Alexandria Crockett	ACCESS Academy @ Lane	Alfonso Garcia Arriola

Physics: Electromagnetic	Honorable Mention	What kinds of materials can interfere with radio waves?	Madeline Rejab	Summa Whitford	Carolee Dearborn
Physics: Electromagnetic	Honorable Mention	How does Frequency Affect Voltage Across a Transformer?	Samantha Womack	Banks Middle School	Tony Richeson
Physics: Electromagnetic	Honorable Mention	Avoid The Shock Of Shocks!	Abdouraheem Jallow	International School of Beaverton Middle School	Georgi Harris
Physics: Mechanical	First Place	Cat physics	Benjamin Dusicka	Summa Meadow	Susan Duncan & Willow Myrland
Physics: Mechanical	Second Place	Static Friction of Bouldering Shoe Rubber: A Comparative Study	Gabriel Groom	ACCESS Academy @ Lane	Alfonso Garcia Arriola
Physics: Mechanical	Second Place	Air Resistance Between Model Cars	Ethan Kibbee	Robert Gray Middle School	David Wages
Physics: Mechanical	Third Place	Snowboarding: experimenting with potential and kinetic energy	Korbin Towne	Winterhaven Middle School	Brian Jay Dyer
Physics: Mechanical	Third Place	Which suit possesses more drag in the water?	Ryan Wang	International School of Beaverton Middle School	Georgi Harris
Physics: Mechanical	Third Place	The Relationship Between Heat and Viscosity	Matthew Morrow	Abiqua Academy	David Dittman
Physics: Mechanical	Honorable Mention	Friction is a Drag	Cole Youso	Abiqua Academy	David Dittman
Physics: Mechanical	Honorable Mention	Effect of Instrument Shape on Pitch and Amplitude	Avery Burtle	ACCESS Academy @ Lane	Alfonso Garcia Arriola
Physics: Mechanical	Honorable Mention	How does the amount of air in a hovercraft balloon affect how long the hovercraft hovers?	Jasmine Kueber	Banks Middle School	Tony Richeson
Physics: Mechanical	Honorable Mention	It's Not Rocket Science	Natalie Frey	Yamhill Carlton School District	Lisa Jacobs

Plant Sciences	First Place	Microwave Radiation and Plant Development	Alexander Vassilev, Austin Yan	ACCESS Academy @ Lane	Alfonso Garcia Arriola
Plant Sciences	Second Place	Soil Wars: The Mint Edition	Alison Heinly	Bend Science Station	Danny Martin
Plant Sciences	Second Place	Fertilization Nation	Max Quintero	Blanchet Catholic School	Micki Halsey Randall, Ph.D.
Plant Sciences	Third Place	Trust Your Gut	Caroline Covlin	St. Francis of Assisi School	Cheryl Morgen
Plant Sciences	Third Place	Growing Cyanobacteria	Quinton Powell	Silverton Middle School	Daniel Jamsa
Plant Sciences	Third Place	The Effects of Water on a Plants Flammability	Avery Ray	The Marylhurst School	Emily Ramirez
Plant Sciences	Honorable Mention	How does copper (Cu) affect the growth of plants?	Olivia Ferguson, Payton Bradley	Leslie Middle School	Michael Rockow
Plant Sciences	Honorable Mention	How can we reverse the effects of poison on plants?	Jesika Marley, Lillian Fowler	Leslie Middle School	Michael Rockow
Plant Sciences	Honorable Mention	The Effects of Smoke on Plant Growth	Zoe McCloskey	The Marylhurst School	Emily Ramirez

Intel NWSE includes both a middle school and high school division. The two divisions included 500 projects from 75 schools and organizations across the state. Two best of fair winners were chosen from each division. Our Middle School Best of Fair winners are:

- Ekansh Mittal, 12, in grade 7 from Summa Meadow won Best of Fair in the middle school division with a project titled, "Approaches to Identify Novel Combinations of Natural Medicine to Treat Bacterial Infections".
- Mirja Rebaum, 12, in grade 7 from Stoller Middle School won Best of Fair in the middle school division with a project titled, "Two Major Global Issues and One Solution to Solve Both".

In addition, many special and category awards were given.

Special Awards

Category awards