

The 2022 Hawaii State Science & Engineering Fair

JR Division Best in Category

JR – ANIMAL SCIENCES (ANIM)		
1ST Place	Vivian E. Hilo Intermediate School	ANIM-5810 The Wings of Moths and Butterflies
2ND Place	Kenny D. Kaimuki Middle School	ANIM-5183 Paws Off!
3RD Place	Brayden C. Kailua Intermediate School	ANIM-5468 Hey Fish... Now You See Me, Now You Don't

JR – BEHAVIORAL & SOCIAL SCIENCES (BEHA)		
1ST Place	Dari C. / Derrick F. / Kanon F. Stevenson Middle School	BEHA-5411 The Effects of Walking Through a Crowded Place on a Heart Rate
2ND Place	Sophia Y. Saint Theresa School, Kauai	BEHA-5719 Effects of Coping Skills
3RD Place	Emery P. Maunawili Elementary School	BEHA-5094 Do Video Games Affect Your Memory?

JR – BIOCHEMISTRY (BCHM)		
1ST Place	Brielle R. / Mio S. / Chloe L. Kaimuki Middle School	BCHM-5014 The Effects of Increased Atmospheric CO ₂ on Medicinal Plants
2ND Place	Fonotala F. Moanalua Middle School	BCHM-5922 Shedding Light on the Scene
3RD Place	Ronson M. Moanalua Middle School	BCHM-5867 How Clean Is Your Fast Food Establishment?

JR – BIOMEDICAL & HEALTH SCIENCES (BMED)		
1ST Place	Darwynn A. Kailua Intermediate School	BMED-5323 Which Mask Works the Best?
2ND Place	Amara L. / Sierra L. St. Andrew's Schools, Priory	BMED-5803 Testing the Effectiveness of Various Face Coverings in Preventing Droplet Transmission
3RD Place	Sophia L. Our Lady of Good Counsel	BMED-5095 The Dirt Snatcher

JR – BIOMEDICAL ENGINEERING (ENBM)

Honorable Mention	Emma I. Moanalua Middle School	ENBM-5775 Grab and Go
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JR – CELL & MOLECULAR BIOLOGY (CELL)

1ST Place	Noah G. Our Lady of Good Counsel	CELL-5109 Dental Nightmare
2ND Place	Riley O. Pearl Harbor Christian Academy	CELL-5889 Egg-cellently Cooked Boiled Eggs

JR – CHEMISTRY (CHEM)

1ST Place	Xiomara P. Our Lady of Good Counsel	CHEM-5096 What Solutions Would Best Separate the Color Pigments in Candy Dyes
2ND Place	Bryan A. Hilo Intermediate School	CHEM-5812 Which Will Coat a Pill the Best: Sugar, Coffee, or Salt?
3RD Place	Grayson R. Iao Intermediate School	CHEM-5511 The Effects of Fuel Orientation in Fire Development

JR – EARTH & ENVIRONMENTAL SCIENCES (EAEV)

1ST Place	Brevin T. Kawananaoka Middle School	EAEV-5526 Measuring Air Particles and Particulate Matter
2ND Place	Michael K. Kailua Intermediate School	EAEV-5301 Greenhouse on the Red Planet
3RD Place	Layla S. Moanalua Middle School	EAEV-5919 Algae You Later CO2

JR – EMBEDDED SYSTEMS (EBED)

Honorable Mention	Lia B. / Sophia H. Washington Middle School	EBED-5072 Can this Drone Solve World Issues?
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JR – ENERGY SUSTAINABLE MATERIALS & DESIGN (EGSD)

1ST Place	Luka M. Kaimuki Middle School	EGSD-5268 Photoelectrons: Increasing Yield with Textured Surface
2ND Place	Logan S. Hilo Intermediate School	EGSD-5822 Energy from Nuts
3RD Place	David S. Kaimuki Middle School	EGSD-5184 Battery Efficiency

JR – ENGINEERING MECHANICS (ENMC)

1ST Place	Lynda-Jean M. Kaneohe Elementary School	ENMC-5833 Toilet Purification
2ND Place	Nicolai S. Niu Valley Middle School	ENMC-5328 Anti-Fog Mask Attachment
3RD Place	Jenna L. Highlands Intermediate School	ENMC-5799 Different Truss Designs to Total Score

JR – ENVIRONMENTAL ENGINEERING (ENEV)

1ST Place	Mason A. Kaneohe Elementary School	ENEV-5793 Dog Compoopster
2ND Place	Eileen Z. Kawanauakoa Middle School	ENEV-5379 Seawalls and Their Effectiveness Against Tsunami Waves
3RD Place	Micah K. Niu Valley Middle School	ENEV-5758 Buoyant Solutions

JR – MATERIAL SCIENCES (MATS)

1ST Place	James H. Hilo Intermediate School	MATS-5819 Dew You Like Condensation
2ND Place	Faith M. Pearl Harbor Christian Academy	MATS-5895 How Sweet Is It?
3RD Place	Sierra D. Niu Valley Middle School	MATS-5768 The Better Balloon

JR – MICROBIOLOGY (MCRO)

1ST Place	Molly S. Hilo Intermediate School	MCRO-5816 Effects of Essential Oils on Bacteria
2ND Place	Cassidy P. Pearl Harbor Christian Academy	MCRO-5888 Grocery Store Bacteria: The Dirtiest Surface
3RD Place	Madeline E. Washington Middle School	MCRO-5326 The Truth About Germ Accumulation

JR – PHYSICS & ASTRONOMY (PHYS)

1ST Place	Noah G. Kailua Intermediate School	PHYS-5303 Reviving Dead Tennis Balls
2ND Place	Quinn M. Iao Intermediate School	PHYS-5523 Another World
3RD Place	Thane M. / Reven O. Our Savior Lutheran School	PHYS-5884 Falling with Style

JR – PLANT SCIENCES (PLNT)

1ST Place	Sean T. Washington Middle School	PLNT-5120 Will Hydroponics Out-Blossom the Old
2ND Place	River F. Hilo Intermediate School	PLNT-5823 Effectiveness of Octadecanol and Hexadecanol for Prevention of Water Evaporation in Soil
3RD Place	Alayna B. Iao Intermediate School	PLNT-5521 Early Ripe Rotten

JR – ROBOTICS & INTELLIGENT MACHINES

1ST Place	Jason L. Kawananaoka Middle School	ROBO-5363 Is it Ripe?
2ND Place	Keira B. Our Lady of Good Counsel	ROBO-5784 Racing Drones

JR – SOFTWARE SYSTEMS (SOFT)

1ST Place	Aidan G. / Brandon K. / Anson L. Kaimuki Middle School	SOFT-5063 Project: Squeak
2ND Place	Colton M. Moanalua Middle School	SOFT-5874 Learning with Games
3RD Place	Arabella C. / Kenji A. Kalakaua Middle School	SOFT-5531 As One With Speed and Keys

JR – TRANSLATIONAL MEDICINE (TMED)

1ST Place	Lillian T. Waiakea Intermediate School	TMED-5529 Investigation of the Potential Antioxidant Effects of a Native Hawaiian Plant
2ND Place	Nelson M. Our Savior Lutheran School	TMED-5885 Are You Really Protected?