

The 2023 Hawaii State Science & Engineering Fair Junior (JR) Division Best in Category

JR - ANIMAL SCIENCES (ANIM)		
1ST Place	Humi Y. Jarrett Middle School	ANIM-403 The Effect of Background Colors to the Shell Selection of Hawaiian Hermit Crabs
2ND Place	Noor Shehata Hilo Intermediate School	ANIM-404 The Impact of Temperature on the Development Rate of Bactrocera cucurbitae (Melon Fly)
3RD Place	June W. St. Anthony School, Maui	ANIM-401 Do Birds Prefer Bird Baths with Moving Water or Still Water?

JR - BEHAVIORAL & SOCIAL SCIENCES (BEHA)		
1ST Place	Mia B. St. Andrew's Schools	BEHA-406 How Did the Pandemic Affect People's Comfort Levels?
2ND Place	Tevy F. St. Andrew's Schools	BEHA-405 How Colors Influence Your Taste
3RD Place	Izabella D. St. Andrew's Schools	BEHA-409 Science for Gummies

JR - BIOCHEMISTRY (BCHM)		
1ST Place	Dylan C. Sunset Beach Elementary School	BCHM-412 Carbon Catchers
2ND Place	Lucas L. / Josiah F. Konawaena Middle School	BCHM-413 Hubble Bubble Boba

JR - BIOMEDICAL & HEALTH SCIENCES (BMED)		
1ST Place	Andrew W. Hilo Intermediate School	BMED-424 Which Egg Storage Technique will Allow the Egg to Remain Fresh the Longest?
2ND Place	Maelo I. Lā'ie Elementary School	BMED-418 Do Name-Brand vs. Generic-Brand Cereals Differ in How Much Iron They Actually Contain?
3RD Place	Denali C. St. Theresa School, Kekaha	BMED-414 A Hidden Sugar

JR - CHEMISTRY (CHEM)

1ST Place	Sarina L. Hilo Intermediate School	CHEM-435 Hair Tensile Strength: Which Hair Lightening Method will Preserve the Strength of Hair?
2ND Place	Julia B. Aliamanu School	CHEM-429 Chlorine and pH Fluctuations in Joint Base Pearl Harbor-Hickam Water Supply Over Time
3RD Place	Khloe D. St. Joseph Parish School, Waipahu	CHEM-427 Bust the Rust: Do Acids with Different pH Levels Affect the Rate of Rust and Corrosion?

JR - EARTH & ENVIRONMENTAL SCIENCES (EAEV)

1ST Place	Nicolas N. Waipahu Intermediate School	EAEV-450 Making Plastic Biodegradation a Viable Option Through Larvae Form Tenebrio Molitor
2ND Place	Anna F. Stevenson Middle School	EAEV-446 Invisible Killer
3RD Place	Austyn B. Hilo Intermediate School	EAEV-451 pH and Conductivity in Catchment and County Water

JR - ENERGY SUSTAINABLE MATERIALS & DESIGN (EGSD)

1ST Place	David S. / Serena U. Kaimuki Middle School	EGSD-461 Portable Car Charger
2ND Place	Mayo N. Hilo Intermediate School	EGSD-465 Which Material Will Create The Most Amount of Static Electricity?
3RD Place	Taizo K. Iao Intermediate School	EGSD-459 H ₂ O to O ₂ and H ₂

JR - ENGINEERING TECHNOLOGY: STATISTICS AND DYNAMICS (ETSD)

1ST Place	Mia S. / Miya K. Kaneohe Elementary School	ENMC-468 Pencil Helper Holder
2ND Place	Allie R. Kailua Intermediate School	ENMC-469 Sand Be Gone
3RD Place	Violet K. / Ele'u C. / Logan Belluomini Kāne'ohe Elementary School	ENMC-466 Car Platter

JR - ENVIRONMENTAL ENGINEERING (ENEV)

1ST Place	Noah T. Kailua Intermediate School	ENEV-476 Water Water Everywhere
2ND Place	Sinalei T. / Elsie K. Kamehameha Schools, Kapālama	ENEV-475 Waiapo Systems
3RD Place	Sarah L. / Isavelle L. Kaimuki Middle School	ENEV-474 Testing the Waters

JR - MATERIAL SCIENCES (MATS)

1ST Place	Sparrow D. Sunset Beach Elementary School	MATS-481 Oil Be Gone
2ND Place	Kristin C. / Lauren I. / Olive H. Lokelani Intermediate School	MATS-478 Does Acidification Affect the Seaweed and Algae on Our Hawaiian Beaches?
3RD Place	Hina N. Hilo Intermediate School	MATS-480 How Does the Amount of Acid Affect the Durability Of Milk-plastic?

JR - MICROBIOLOGY (MCRO)

1ST Place	'Ānelalani S. St. Andrew's Schools	MCRO-486 Can Native Hawaiian Remedies be as Effective as Commercial Antibiotics?
2ND Place	Ben Y. Hilo Intermediate School	MCRO-493 The Big Power of Small Silver: How do Different Concentrations of Nanosilver Inhibit Bacteria Growth?
3RD Place	Maya G. / Andrew L. / Summer H. Kaimuki Middle School	MCRO-492 Phytoremediation of Water Contaminants Using Aquatic Moss

JR - PHYSICS & ASTRONOMY (PHYS)

1ST Place	Reid I. / John E. Aliamanu Middle School	PHYS-511 Working With Wind
2ND Place	Anna B. Aliamanu Middle School	PHYS-501 How Drag Affects Swimming
3RD Place	Sky B. Hilo Intermediate School	PHYS-500V Hot Or Not? Heat Change of Three Different Materials of Filament Wire Over Five Minutes

JR - PLANT SCIENCES (PLNT)

1ST Place	Destiny N. / Tehya L. / Ella K. Kaimuki Middle School	PLNT-512 Aeroponics vs Hydroponics
2ND Place	Olivia M. Hilo Intermediate School	PLNT-514 Carbon Dioxide Emissions During Yeast Fermentation of Tropical Plants
3RD Place	Gabriel A. Iao Intermediate School	PLNT-515 Comparing the Effects of Different Liquids on the Growth of Arugula

JR - ROBOTICS & INTELLIGENT MACHINES

1ST Place	Rhylie S. / Karyzza R. Waipahu Intermediate School	ROBO-525 Improving Lives for the Disabled
2ND Place	Lion H. Kawananakoa Middle School	ROBO-524 Hydraulic Arm
3RD Place	Nhi N. Washington Middle School	ROBO-523 Can Image Recognition AI Detect Differences in Quantity in Visual Data?