

The 2025 Hawaii State Science & Engineering Fair Junior (JR) Division Best in Category

JR - ANIMAL SCIENCES (ANIM)		
1ST Place	Ren A. Waiākea Intermediate School	ANIM-402 Nematode Destroyer 1 - Using an entomopathogenic nematode to control Queensland Longhorn Beetle (QLB)
2ND Place	Zoe G. Niu Valley Middle School	ANIM-401 Light Color and Plankton Biodiversity
3RD Place	Aria Jade G. King Intermediate School	ANIM-404 Ant Attack

JR - BIOCHEMISTRY (BCHM)		
1ST Place	Lauren T. / Ki Ann W. Highlands Intermediate School	BCHM-405 Sweet or Savory: What Tempts Cockroaches the Most?
2ND Place	Avery T. / Mila-Rose C. / Hailey B. King Intermediate School	BCHM-406 C-Crets of Melons

JR - BEHAVIORAL & SOCIAL SCIENCES (BEHA)		
1ST Place	Jayda D. Kalakaua Middle School	BEHA-409 Noble Mnemonics
2ND Place	Skylar C. Highlands Intermediate School	BEHA-407 Improving Memory With Music
3RD Place	Zachary C. Aliamanu Middle School	BEHA-412 Ditch the Alarm?

JR - BIOMEDICAL & HEALTH SCIENCES (BMED)

1ST Place	Liliana S. St. Andrew's Priory	BMED-414 The Effects of Hair Dye on the Strength and Structure of Human Hair
2ND Place	Patrick W. Hilo Intermediate School	BMED-416 Evaluation of Morinda citrifolia (Noni) Leaves and Annona muricata (Soursop) Leaves for Antimicrobial Activity
3RD Place	Chloe L. / Bliss K. / Lily K. Kaimuki Middle School	BMED-413 Operation Scent

JR - CHEMISTRY (CHEM)

1ST Place	Lola S. / Stella W. Niu Valley Middle School	CHEM-426 Jaw-Dropping Science
2ND Place	Prayze Harley R. Kawanakoa Middle School	CHEM-422 Enemies of Eczema
3RD Place	Kaila K. Kawanakoa Middle School	CHEM-421 Same Recipe Different Density

JR - EARTH & ENVIRONMENTAL SCIENCES (EAEV)

1ST Place	Lilo R. Niu Valley Middle School	EAEV-436 How does different types of indigenous plants affect how fire spreads and catches?
2ND Place	Zeveli A. Kihei Charter School	EAEV-442 When Urban Noise Speaks: The Effects of Sound Pollution on Myna Birds
3RD Place	Simone C. / Arwyn R. King Intermediate School	EAEV-450 How Coral Food Supplements Affect Coral Growth

JR - EMBEDDED SYSTEMS (EBED)

1ST Place	Margot L. Kahuku High & Intermediate	EBED-454 Testing Solar Panel Efficiency Using Solar Trackers
2ND Place	Spence J. Kailua Intermediate School	EBED-453 Plant Champ

JR - ENERGY SUSTAINABLE MATERIALS & DESIGN (EGSD)

1ST Place	Elizabeth H. / Mana T. / Misa U. Kaimuki Middle School	EGSD-455 Harnessing Hawaii's Waves
2ND Place	Alessandra S. / Mason A. / Raegan B. Kamehameha Schools, Kapālama	EGSD-456 Harnessing the Power of Sound
3RD Place	Suriel W. / Lina H. Kaimuki Middle School	EGSD-457 Banana Waste to Bioplastic

JR - BIOMEDICAL ENGINEERING (ENBM)

Honorable Mention	Gabrielle L. / Raelyn T. / Kahea N. King Intermediate School	ENBM-463 Mehana IV Sleeve
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JR - ENVIRONMENTAL ENGINEERING (ENEV)

1ST Place	Alexander W. Niu Valley Middle School	ENEV-466 Innovative Wildfire Flame Suppression Device
2ND Place	Max T. Hilo Intermediate School	ENEV-469 Phytoremediation of Saline Soils with <i>Myriophyllum aquaticum</i>
3RD Place	Zerah L. Pearl Harbor Christian Academy	ENEV-475 Sun-body's Watching Me

JR - ENGINEERING TECHNOLOGY: STATISTICS AND DYNAMICS (ETSD)

1ST Place	Steven A. / Alexei T. Kaimuki Middle School	ETSD-476 Analyzing Public Data to Streamline and Increase the Usage of Oahu's Skyline Public Transportation System Assisted by TheBus
2ND Place	Quorra M. Aliamanu Middle School	ETSD-482 Brick Piece Sorting Shaker
3RD Place	Kaili L. / Kobe B. Kāne'ōhe Elementary School	ETSD-483 Chair Basket

JR - MATHEMATICS (MATH)

Honorable Mention	Fisher M. Kailua Intermediate School	MATH-489 March Madness Mayhem
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JR - MATERIAL SCIENCES (MATS)

1ST Place	Tevy F. Aliamanu Middle School	MATS-495 Questioning Camera Quality
2ND Place	Emily C. Highlands Intermediate School	MATS-492 Impact of Humidity on Filament Durability
3RD Place	Anna B. Hilo Intermediate School	MATS-498 Wind Power: Evaluating Superior Materials for Turbine Blades

JR - MICROBIOLOGY (MCRO)

1ST Place	Jayna A. Maui Waena Intermediate School	MCRO-503 Antibacterial Activity of Plant Extracts against Bacillus cereus, a Food Spoilage Bacterium
2ND Place	Maiara Dutra E. / Natalie A. / Nia H. King Intermediate School	MCRO-501 Coliform Combat
3RD Place	Maya B. Hilo Intermediate School	MCRO-504 Water Temperatures Versus Bacteria Colonies

JR - PHYSICS & ASTRONOMY (PHYS)

1ST Place	Camryn A. Highlands Intermediate School	PHYS-505 Does Parachute Shape Matter?
2ND Place	Kash R. / Nathaniel D. Parker Elementary School	PHYS-508 Magnets in Motion
3RD Place	Charles F. / Dallas H. Hau'ula Elementary School	PHYS-506 Magnetic Might

JR - PLANT SCIENCES (PLNT)

1ST Place	Anaya Reese G. University Laboratory School	PLNT-515 Comparison of the Effects of Compost on Plant Growth
2ND Place	Liahona E. / Teizie T. Waiāhole Elementary School	PLNT-520 Companion Planting with Native Hawaiian Plants
3RD Place	Evangeline T. Niu Valley Middle School	PLNT-513 Little Trees, Big Problem, A Natural Solution

JR - ROBOTICS & INTELLIGENT MACHINES (ROBO)

1ST Place	Noleen Bianca F. Kalakaua Middle School	ROBO-522 Sentinel Step Fall safe: Automated Fall Detection and Emergency Alert System
2ND Place	Alexander B. Kealakehe Intermediate School	ROBO-524 Drone Science fair
3RD Place	Jett B. / Ramsey M. Washington Middle School	ROBO-523 Saving Lives By Flying In!

JR - SYSTEMS SOFTWARE (SOFT)

1ST Place	Aaron S. Kahuku High & Intermediate	SOFT-528 Algorithms in Connect-4
2ND Place	Matteo M. St. Theresa School, Honolulu	SOFT-526 Colorblind Companion App
3RD Place	Jonathan D. Kahuku High & Intermediate	SOFT-527 Creating a Website that Uses Synonyms to Enhance Search Results

JR - TRANSLATIONAL MEDICAL SCIENCE (TMED)

1ST Place	Hokuokalani H. / Luca K. King Intermediate School	TMED-529 Hawaiian Medicinal Mysteries
2ND Place	Joanna T. Waiākea Intermediate School	TMED-530 Identifying the Potential Anti-Angiostrongylus cantonensis Properties of Native Hawaiian Products