



2019 ODE STEM Workshop Registration

Class Catalog

Event Contacts

Name	Title	Phone	Email
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Registration opens March 09, 2019
Visit www.scoutingevent.com/104-2019ODESTEM to register



Class Catalog








2019 ODE STEM Workshop Registration at Blaisdell Center

Makahiki ODE STEM Workshops (Scheduled Classes)

ODE217	10-10:45 AM		Altino Coding for Non-Coders Coding for the Non-Coder. Learn the latest technology from South Korea and to code in C/C++ in five minutes using the Altino Coding Car. Recommended for grade 5-12. Presented by Oceanit. Maximum number of participants: 25
ODE217	11-11:45 AM		Altino Coding for Non-Coders Coding for the Non-Coder. Learn the latest technology from South Korea and to code in C/C++ in five minutes using the Altino Coding Car. Recommended for grade 5-12. Presented by Oceanit. Maximum number of participants: 25
ODE207	12:30-1:15 PM		Chain Reactions: Fun with Kinetic Energy Use the engineering design process to explore and learn about kinetic energy. Use everyday materials to create chain reactions that are sure to entertain and amaze. Recommended for grade 3+. Presented by Elemental Minds.
ODE207	1:30-2:15 PM		Chain Reactions: Fun with Kinetic Energy Use the engineering design process to explore and learn about kinetic energy. Use everyday materials to create chain reactions that are sure to entertain and amaze. Recommended for grade 3+. Presented by Elemental Minds. Maximum number of participants: 25
ODE202	10-10:45 AM		Color Mixing - Pixel Art Color-by-number but with a modern twist! Learn the basics of subtractive color mixing and how things like inkjet/laser printers are able to create thousands of colors when starting with just a few. Toss in some basic computer science concepts and it will be a full STEAM experience. Recommended for grade 3+. Presented by Mililani High School.
ODE202	11-11:45 AM		Color Mixing - Pixel Art Color-by-number but with a modern twist! Learn the basics of subtractive color mixing and how things like inkjet/laser printers are able to create thousands of colors when starting with just a few. Toss in some basic computer science concepts and it will be a full STEAM experience. Recommended for grade 3+. Presented by Mililani High School. Maximum number of participants: 25
ODE219	12:30-1:15 PM		Crash Cars Crash cars is a fun-filled and hands-on physics lesson. Using given materials, physics, and a touch of engineering, children will design their own cars that crash into each other. Recommended for grade 4-8. Presented by Magma Robotics. Maximum number of participants: 25








Class Catalog

2019 ODE STEM Workshop Registration at Blaisdell Center

ODE219	1:30-2:15 PM		Crash Cars Crash cars is a fun-filled and hands-on physics lesson. Using given materials, physics, and a touch of engineering, children will design their own cars that crash into each other. Recommended for grade 4-8. Presented by Magma Robotics. Maximum number of participants: 25
ODE221	10-10:45 AM		Cyber Safety Awareness Workshop will provide cyber safety awareness to include tips for password management, internet scams, social media and other topics to make you safer and more secure when connected. This workshop will also include a Q&A section and conclude with an interactive review session. Recommended for grade 7-12. Presented by (ISC)2 Hawaii Chapter. Maximum number of participants: 25
ODE222	12:30-1:15 PM		Defying Gravity with Roto-Copters and Gliders Experience the four forces of flight by learning design tips and tricks before you test your very own Roto-Copters and Gliders. The sky is the limit! Recommended for grade 2-6. Presented by Hawaii Space Flight Laboratory. Maximum number of participants: 25
ODE222	1:30-2:15 PM		Defying Gravity with Roto-Copters and Gliders Experience the four forces of flight by learning design tips and tricks before you test your very own Roto-Copters and Gliders. The sky is the limit! Recommended for grade 2-6. Presented by Hawaii Space Flight Laboratory. Maximum number of participants: 25
ODE211	11-11:45 AM		Discover Robotics with FIRST Tech Challenge This session will introduce participants to FIRST Tech Challenge (FTC), an engaging robotics competition for students in grades 7 to 12. "FTC" robots are controlled by Android mobile phones and can be constructed from just about any materials students have access to. This "no limits" approach throws open the door to creativity and innovation. FTC robots will be provided for participants to attempt various challenges. Recommended for grade 7-12. Presented by Hawaii FIRST Robotics. Maximum number of participants: 25
ODE211	12:30-1:15 PM		Discover Robotics with FIRST Tech Challenge This session will introduce participants to FIRST Tech Challenge (FTC), an engaging robotics competition for students in grades 7 to 12. "FTC" robots are controlled by Android mobile phones and can be constructed from just about any materials students have access to. This "no limits" approach throws open the door to creativity and innovation. FTC robots will be provided for participants to attempt various challenges. Recommended for grade 7-12. Presented by Hawaii FIRST Robotics. Maximum number of participants: 25
ODE206	12:30-1:15 PM		Earthquakes: Our Live Earth in Action PowerPoint presentation, videos, discussion, and hands-on-activities. Objectives are to demonstrate earthquakes and earthquake hazards, while covering principals in elastic rebound, wave propagation, and time-velocity-distance relations. Recommend for grade 7+. Presented by University of Hawaii Earth Sciences. Maximum number of participants: 25

Class Catalog

2019 ODE STEM Workshop Registration at Blaisdell Center

ODE206	1:30-2:15 PM		Earthquakes: Our Live Earth in Action PowerPoint presentation, videos, discussion, and hands-on-activities. Objectives are to demonstrate earthquakes and earthquake hazards, while covering principals in elastic rebound, wave propagation, and time-velocity-distance relations. Recommend for grade 7+. Presented by University of Hawaii Earth Sciences. Maximum number of participants: 25
ODE210	10-10:45 AM		Energy Unplugged Join Hawai'i Energy's engaging and empowering workshop about how to make Hawai'i the national leader in Energy Efficiency! Learn how to make smart energy choices to reduce energy consumption, save money, and pursue a 100% clean energy future. Recommended for grade 3+. Presented by Hawaii Energy. Maximum number of participants: 25
ODE210	11-11:45 AM		Energy Unplugged Join Hawai'i Energy's engaging and empowering workshop about how to make Hawai'i the national leader in Energy Efficiency! Learn how to make smart energy choices to reduce energy consumption, save money, and pursue a 100% clean energy future. Recommended for grade 3+. Presented by Hawaii Energy. Maximum number of participants: 25
ODE203	12:30-1:15 PM		Finger Printing We will talk about what fingerprints are and how, as forensic science majors, how we will use them in our career. We will also talk about other reasons why fingerprints are used for identification. Recommended for grade K+. Presented by Chaminade University Forensic Science Club. Maximum number of participants: 25
ODE203	1:30-2:15 PM		Finger Printing We will talk about what fingerprints are and how, as forensic science majors, how we will use them in our career. We will also talk about other reasons why fingerprints are used for identification. Recommended for grade K+. Presented by Chaminade University Forensic Science Club. Maximum number of participants: 25
ODE205	12:30-1:15 PM		First Aid and Emergency Preparedness A collaborative and engaging workshop to help participants learn first aid and emergency preparedness life-skills. It helps participants become more risk aware and equips them with invaluable skills to keep themselves and others safe if involved in a medical emergency and natural disaster situations. It could save lives. Scouts may be able to meet some related rank requirements and merit badge achievements (First Aid & Emergency Preparedness). Maximum number of participants: 25
ODE205	1:30-2:15 PM		First Aid and Emergency Preparedness A collaborative and engaging workshop to help participants learn first aid and emergency preparedness life-skills. It helps participants become more risk aware and equips them with invaluable skills to keep themselves and others safe if involved in a medical emergency and natural disaster situations. It could save lives. Scouts may be able to meet some related rank requirements and merit badge achievements (First Aid

Class Catalog

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& Emergency Preparedness).
Maximum number of participants: 25

ODE214 12:30-1:15 PM



Fish Features! Design Your Own Deep-Sea Fish

Design your own deep-sea fish! In this workshop, you will learn about the common adaptations fish need to survive in the cold, dark and expansive deep sea. Drawing inspiration from real-life specimens, you will design and create your own fish, complete with a scientific name of your choosing. Whose fish will be the most likely to survive in the ocean's depths...? Recommended for students ages 10-15.

Maximum number of participants: 25

ODE214 1:30-2:15 PM



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Design your own deep-sea fish! In this workshop, you will learn about the common adaptations fish need to survive in the cold, dark and expansive deep sea. Drawing inspiration from real-life specimens, you will design and create your own fish, complete with a scientific name of your choosing. Whose fish will be the most likely to survive in the ocean's depths...? Recommended for students ages 10-15.

Maximum number of participants: 25

ODE208 12:30-1:15 PM



Gelatin Volcanoes

Experience how magma migrates within a volcano and learn how it is related to the shape of a volcano and lava flow hazards. Inject "magma" into a gelatin volcano and see how it reaches the surface. Recommended for grade 3. Presented by University of Hawaii Department of Geology and Geophysics.

Maximum number of participants: 25

ODE208 1:30-2:15 PM



Gelatin Volcanoes

Experience how magma migrates within a volcano and learn how it is related to the shape of a volcano and lava flow hazards. Inject "magma" into a gelatin volcano and see how it reaches the surface. Recommended for grade 3. Presented by University of Hawaii Department of Geology and Geophysics.

Maximum number of participants: 25

ODE209 10-10:45 AM



Hardware Science

Hardware meets science! Children can discover and learn the science of physics during this workshop! We'll explore balance, gravity and a little bit of science magic using materials from the local hardware store: nails, metal rings, and washers just to name a few! Recommended for grade 1-6. Presented by ACE Hardware.

ODE209 11-11:45 AM



Hardware Science

Hardware meets science! Children can discover and learn the science of physics during this workshop! We'll explore balance, gravity and a little bit of science magic using materials from the local hardware store: nails, metal rings, and washers just to name a few! Recommended for grade 1-6. Presented by ACE Hardware.

Maximum number of participants: 25

ODE215 10-10:45 AM



LEGO Master-Building for EARTHQUAKES!

As a LEGO Master-BUILDER, you will be challenged to design a LEGO tower to withstand a simulated earthquake event using your own Shake Table, and test your design with others. Whose will be the last one standing?? Recommended for grade K-5. Presented by the Structural Engineers Association.

Class Catalog

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Maximum number of participants: 25

ODE215 11-11:45 AM



LEGO Master-Building for EARTHQUAKES!

As a LEGO Master-Builder, you will be challenged to design a LEGO tower to withstand a simulated earthquake event using your own Shake Table, and test your design with others. Whose will be the last one standing?? Recommended for grade K-5. Presented by the Structural Engineers Association.

Maximum number of participants: 25

ODE201 10-10:45 AM



LEGO Robotics

Attendees will have the opportunity to program a robot using the LEGO Mindstorms EV3 set. This LEGO set allows students to use sensors and motors to create an autonomous robot. Sensors can detect light, color, sound, distance, and physical contact. Motors can turn wheels that allow the robot to move, or they can power attachments. Learn how to use the graphical programming language to program the LEGO robots to perform a simple task. Recommended for grade 5-9. Presented by Hawaii FIRST Robotics.

Maximum number of participants: 25

ODE201 11-11:45 AM



LEGO Robotics

Attendees will have the opportunity to program a robot using the LEGO Mindstorms EV3 set. This LEGO set allows students to use sensors and motors to create an autonomous robot. Sensors can detect light, color, sound, distance, and physical contact. Motors can turn wheels that allow the robot to move, or they can power attachments. Learn how to use the graphical programming language to program the LEGO robots to perform a simple task. Recommended for grade 5-9. Presented by Hawaii FIRST Robotics.

Maximum number of participants: 25

ODE224 10-10:45 AM



Mystery and Intrigue: The Wide World of Electricity

Learn some exciting aspect of electricity. Build a battery storage experiment that should impress your friends, family and teachers. No experience necessary. Just bring your eagerness to participate and learn. Recommended for grade 3+. Presented by Hawaiian Electric Company.

ODE224 11-11:45 AM



Mystery and Intrigue: The Wide World of Electricity

Learn some exciting aspect of electricity. Build a battery storage experiment that should impress your friends, family and teachers. No experience necessary. Just bring your eagerness to participate and learn. Recommended for grade 3+. Presented by Hawaiian Electric Company.

Maximum number of participants: 25

ODE218 12:30-1:15 PM










Polynesian Voyaging Star Compass Activity

Re-create PVS Star Compass with participants becoming and acting as the waypoints on the compass (connecting ancient Hawaiian science to modern). Recommended for all ages. Presented by Oahu Ocean Edventures.

Maximum number of participants: 25







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ODE218	1:30-2:15 PM		Polynesian Voyaging Star Compass Activity Re-create PVS Star Compass with participants becoming and acting as the waypoints on the compass (connecting ancient Hawaiian science to modern). Recommended for all ages. Presented by Oahu Ocean Edventures. Maximum number of participants: 25
ODE220	10-10:45 AM		Seeing is NOT Believing Surprise your friends with these cool optical illusions that will amuse and amaze. Recommended for all ages. Presented by Leeward Community College. Maximum number of participants: 25
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ODE223	10-10:45 AM		Straw Rocket Science Experience the basic physics of rocketry first hand using nothing more than drinking straws and air. A demonstration will also be given of the kind of rocket science that can be done with state of the art gaming software. Recommended for grade 3+. Presented by Hawaii Space Flight Laboratory.
ODE223	11-11:45 AM		Straw Rocket Science Experience the basic physics of rocketry first hand using nothing more than drinking straws and air. A demonstration will also be given of the kind of rocket science that can be done with state of the art gaming software. Recommended for grade 3+. Presented by Hawaii Space Flight Laboratory. Maximum number of participants: 25
ODE216	12:30-1:15 PM		The Secret World of Viruses Have you ever had the flu? What about the cold? These illnesses are caused by extremely tiny microbes called viruses. However, only a small portion of viruses make humans sick. Most viruses are found in every environment like the ocean and are in fact beneficial in earth processes. So what exactly are viruses? In this workshop, we will dive into the ins and outs of viruses and get a chance to infect a mock host cell. Recommended for grade 5-10. Presented by University of Hawaii Department of Oceanography. Maximum number of participants: 25
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Class Catalog

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ODE204	10-10:45 AM		<p>Under the Microscope</p> <p>Discover the hidden world just out of eye sight. Come explore the microscopic world using microscopes. Learn to prepare samples for viewing and take digital pictures of your specimen. Learn and experience the art and science of observation and microscopy. Recommended for grade 5+. Presented by Chaminade University: I Am a Scientist.</p> <p>Maximum number of participants: 25</p>
ODE204	11-11:45 AM		<p>Under the Microscope</p> <p>Discover the hidden world just out of eye sight. Come explore the microscopic world using microscopes. Learn to prepare samples for viewing and take digital pictures of your specimen. Learn and experience the art and science of observation and microscopy. Recommended for grade 5+. Presented by Chaminade University: I Am a Scientist.</p> <p>Maximum number of participants: 25</p>
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ODE212	10-10:45 AM		<p>Working on Mars - Program Your Rover!</p> <p>Students will simulate unmanned exploration of Mars by programming Ozobots (miniature robots). Program your rover to complete the mission before returning to Mars base! Recommended for grade 3-8. Presented by Department of Education Campbell Complex and Challenger Center Hawaii.</p> <p>Maximum number of participants: 25</p>
ODE212	11-11:45 AM		<p>Working on Mars - Program Your Rover!</p> <p>Students will simulate unmanned exploration of Mars by programming Ozobots (miniature robots). Program your rover to complete the mission before returning to Mars base! Recommended for grade 3-8. Presented by Department of Education Campbell Complex and Challenger Center Hawaii.</p> <p>Maximum number of participants: 25</p>