



Youth Environmental Summit



PRESENTATION SCHEDULE

Presented by



Thank you for registering your class to attend the Youth Environmental Summit (YES), taking place online from Monday, April 19 through Friday, April 23. Below, please find the presentation schedule. Many presentations include activities that can be downloaded and completed during or after watching the video.

The YES platform will be available through April 23. After that date, a selection of presentations will be available on the Resources page of the main YES website, www.ocyouthsummit.com.

Should you have any questions, please call (714) 378-3257 or email ocyouthsummit@ocwd.com.

Live Presentations

YES will feature live presentations at 9 a.m. and 11 a.m. on Tuesday, Wednesday and Thursday. Each live presentation is approximately 45-60 minutes in length and suitable for all grade levels. Recordings will be made available on demand the following morning, with the exception of Emily Calandrelli.

Tuesday, April 20 at 9 a.m.
Underground Water Adventure
Presented by Orange County Water District

Explore the Orange County Groundwater Basin and learn all about groundwater, wells, and aquifers! Watch a demonstration to learn how groundwater contamination can spread and hear about which natural materials can retain water the best.

Tuesday, April 20 at 11 a.m.

Bringing Science and Space Education Down to Earth

Presented by The Space Gal, Emily Calandrelli

Emily will share some of the adventures she's had as a science TV host and the lessons she's learned along the way. She'll discuss empathetic science communication and show how space technology benefits life down here on our planet.

Wednesday, April 21 at 9 a.m.

The Wonders of Water Recycling

Presented by Orange County Water District

Learn about the world-famous Groundwater Replenishment System and how we recycle wastewater, purify it, and put it back in the Orange County Groundwater Basin, which eventually reaches your homes and schools!

Wednesday, April 21 at 11 a.m.

Mountain Lions of the Santa Monica Mountains

Presented by California Science Center

How do the changes in an environment affect what lives there? Students will be blasted to the past and will also learn about present day environments to explore how changing surroundings can affect how well organisms who live there can survive. Students will need paper and a pencil.

Thursday, April 22 at 9 a.m.

Hawks, Coyotes, Snakes... Oh My! Watershed Wildlife at OCWD

Presented by Orange County Water District

Get a glimpse into all the different wildlife that live around us and our local rivers. You'll also get to virtually meet our snake friends, Cornelius the Corn Snake, Willy the Rosy Boa and Javier, a Mexican Mountain King Snake!

Thursday, April 22 at 11 a.m.

Simple Science with Strawberries and Salt

Presented by Orange County Water District

Follow along with this science experiment with simple household items! Our scientists will demonstrate a fun activity that reflects the important work they do at OCWD every day, making sure viruses are removed from water, and yes, even wastewater.

On Demand Videos

On demand videos encompass one or more of the following subjects: water, sustainability, life science, earth science, and physical science. Content is searchable by subject, grade level, format, and keyword. New content will appear at the top of the page.

The length of each video will appear in the top left of its corresponding thumbnail. Many of the videos have corresponding activities that may be downloaded and completed during or after watching the video.

MONDAY, APRIL 19

pHun with Water

Presented by Orange County Water District

Learn about pH and how to indicate it with different colors through a “pHun” chemistry experiment! Using red cabbage juice as an indicator, you can test the pH level of simple household items like lemon juice and baking soda.

Visit the Prado Wetlands

Presented by Orange County Water District

Learn about the plants and animals that live in the Santa Ana watershed, and what it takes to survive.

Used Motor Oil and the Environment

Presented by County of Orange Environmental Health Division

Used motor oil and filters are toxic and need to be recycled. Learn about used motor oil and other household hazardous wastes, and how recycling as opposed to dumping protects the ocean and our aquifers.

What is Pollination?

Presented by Inland Empire Resources Conservation District

Learn about pollination is and why it is so important!

Thirsty Plants

Presented by Inside the Outdoors

We need help! A water-wise garden will be planted, but we need a recommendation on which plants will be best. Students will explore how the hydrosphere interacts with the geosphere by looking at how plants take in and lose water through their leaves.

EcosySTEM Studies

Presented by The Reserve at Rancho Mission Viejo

Join the Reserve at Rancho Mission Viejo to learn all about food chains, biotic and abiotic factors in ecosystems, and data collection. You'll even meet a live beetle and learn the important role decomposers play in the ecosystem.

Sustainability - At Home and in Outer Space!

Presented by Columbia Memorial Space Center

Our Girls in STEM Club will demonstrate activities that can be done at home to be more sustainable. Students will also learn about the ways that astronauts are practicing sustainability while living on the International Space Station!

OC Coastkeeper and Moulton Niguel Water District's Exploration of Aliso Creek

Presented by OC Coastkeeper

Take a virtual tour of the Aliso Creek watershed as well as explore a virtual water quality lab to check the health of the waterway. A lab sheet is included for students to make their own assessment of the health of the ecosystem.

Whaley Interesting

Presented by Newport Wales

Explore the fascinating lives of whales and dolphins in the Pacific Ocean. You will learn what is a whale, differences between baleen and toothed whales, how do they breathe and much more as we even take you out onto the open ocean.

Wipes in the Pipes

Presented by Orange County Sanitation District

The toilet isn't a trash can, it's important to know why nothing other than the 3 Ps should go down the pipes. Pee, Poop and Toilet Paper are the only things can properly go through the pipes and be treated at OC San.

TUESDAY, APRIL 20

Keeping Our Water Safe & Clean – Water Sampling at OCWD
Presented by Orange County Water District

From surface water to groundwater to recycled water, learn about all the different sources of water where OCWD monitors, and then takes thousands of samples to make sure your drinking water is safe.

How is Gardening Good for the Environment?
Presented by Inland Empire Resources Conservation District

Learn the importance of plants and gardening!

Careers in Science at San Juan Creek
Presented by The Reserve at Rancho Mission Viejo

Have you thought about what career you would like in the future? Join the Reserve at Rancho Mission Viejo to learn about the animals that live in San Juan Creek, and the careers in science at the Creek.

Water Filtration 101
Presented by Mesa Water District

Learn how water from natural sources is filtered in the aquifer.

Water Efficiency 101: Don't Waste a Good Thing
Presented by Irvine Ranch Water District

Learn how to find water leaks inside and outside the home, and the benefits of using water efficiently.

Recycling Center Video Tour
Presented by Republic Services

Do you know what happens to your recyclables after they are taken away by the recycling truck? Tour a Materials Recovery Facility (MRF) to find out. Plus, learn what is and is not recyclable.

Learn about the Giant Sequoia at Calaveras Big Trees State Park
Presented by California State Parks

Join California State Parks Interpreter Jenny at Calaveras Big Trees State Park. Learn about the towering giant sequoias and the important role they play in California's history.

Awesome Adaptations
Presented by Environmental Nature Center

Take a guided virtual hike through different habitats of California (desert, chaparral, riparian) and learn about adaptations that allow native plants and wildlife to survive there.

How USGS Streamgages Work
Presented by U.S. Geological Survey California Water Science Center

Students will learn the different way USGS hydrologists measure water height and speed in California's streams and why that's important.

Let's Talk About the Environment
Presented by Orange County Stormwater Program (H2OC)

Learn about watersheds, the water cycle, sewer versus storm drain systems, common pollutants found in storm water, and what students can do to prevent storm water pollution. Students are encouraged to follow along with the Watershed Activity Booklet.

WEDNESDAY, APRIL 21

A Behind-the-Scenes Look into Our Lab
Presented by Orange County Water District

Buckle your seatbelts! Join us for an inside look into OCWD's Philip L. Anthony Water Quality Laboratory and meet some of the scientists who work there. This is where our chemists test and analyze our local water supply to make sure it's safe to drink.

Animals Using Water
Presented by Inland Empire Resources Conservation District

Learn how pets and animals use water.

Save the Desert Tortoise!
Presented by The Reserve at Rancho Mission Viejo

Join the Reserve at Rancho Mission Viejo and meet a live desert tortoise, learn about threats to endangered species, and learn what is being done to help.

Busy Body

Presented by California Science Center

Join our educators to discover how our resident venus flytrap, sand boa and military macaw sense and respond to information in unique ways. Plus, explore an eyeball by completing your own Science Sketch.

Water We Learning? The Basics of pH
Presented by Santa Ana River Basin Section

This lesson will provide the basics on pH and its application in water treatment processes. Students will be given examples of pH levels from everyday household items and will have an opportunity to apply this lesson at home!

Aqua Smart Live
Presented by CA Department of Boating and Waterways

Join Rivo the Otter and buddies Joe and Charlie for a puppet show about water safety. Just as important as keeping kids safe in the water is keeping our waterways safe. The cast shares ways everyone can help keep our waterways clean.

A Day in the Life of a Kid at Bodie State Historic Park!
Presented by California State Parks

Discover what it was like to be a child living in the gold rush town of Bodie during the late 1800's. Walk through this preserved ghost town to see how the lives of children back then were very different from the lives of children today!

Water Treatment Plant Tour
Presented by Helix Water District

See each step of the water treatment process, from the control room to the chemistry lab to the ozonation facility. The tour will give you an inside look at how Helix Water District provides a safe and reliable water supply

Watersheds, Wetlands, and Wildlife
Presented by CA Department of Fish & Wildlife

Take a video tour of the Back Bay Science Center and be introduced to the concepts of watersheds, the tidepool/estuaries/wetlands habitats, and how human impacts affect the wildlife that lives in these habitats and ecosystems.

THURSDAY, APRIL 22

Is Water Really Stored Underground?
Presented by Orange County Water District

Did you know there are five sources of water in Orange County? Learn about the different sources, where we refill the underground aquifers and watch a simple demonstration of how percolation works. Try it at home and let us know your results!

Exploring the Bolsa Chica Wetlands
Presented by Bolsa Chica Conservancy

Take a virtual hike of the Bolsa Chica Ecological Reserve and learn what a wetland is, their functions, the residing flora and fauna, watersheds, and actions you can take to improve the quality of local wetlands and coastal habitats.

Grow with the Flow
Presented by California Science Center

Join our educators to discover how organisms in the California Science Center's Kelp Forest and the Rose Garden fuel themselves to survive.

Soil Layers
Presented by Inland Empire Resources Conservation District

Learn about the various layers of soil and watch a fun and edible activity!

Big Data – Big Ideas
Presented by Moulton Niguel Water District

Through the use of a short video and activity sheet, you'll learn the important role data plays in the water industry.

The Water Cycle and Water Conservation
Presented by Water Replenishment District

Learn how to conserve water, and learn about the role humans play in altering natural interactions.

Raptor Education - Red Tailed Hawks with Peggy and Hank
Presented by Orange County Bird of Prey Center

In this video our amazing director Peggy Chase gives a presentation on Red Tailed Hawks with Hank, who is one of our red tailed hawk educational ambassadors!

Talking Trees at Torrey Pines State Natural Reserve
Presented by California State Parks

What do big trees and California State Park Rangers have in common? They are both strong, resilient and provide protection to others! Join Rangers Adam and Brittany to learn about two rare big trees, the Giant Sequoia and the Torrey Pine.

The Water Workshop: The Water Cycle
Presented by Alameda County Water District

In this short video, learn about the stages of the water cycle and how you can create your own water cycle at home using the following supplies: a ziploc bag, water, marker, food coloring, cup, and spoon.

FRIDAY, APRIL 23

I'm Drinking What?!?!

Presented by Orange County Water District

Ever wonder what happens to your water before it comes out of your faucet? Take a tour of the Groundwater Replenishment System and learn how OCWD turns wastewater into water pure enough to drink.

Time Will Tell
Presented by California Science Center

Join our educators on a nature walk around the California Science Center to explore clues from the past and present. Think about how an environment changes over time and how those changes can affect what lives there.

The Restoration of Puddingstone Reservoir
Presented by Cal Poly Pomona

Pollutants pose a health risk to the recreational patrons of Puddingstone Reservoir, as well as the ecosystem. Students will learn about environmental engineering, sustainability, and GIS in a real world application.

Great White Sharks, The Misunderstood Monsters of the Sea
Presented by California State Parks

Despite their fearsome appearance, sharks play an important role in keeping our ocean healthy. Sharks are irreplaceable key predators that balance and strengthen marine ecosystems by preying upon and removing weak or sick animals from the gene pool.

Keeping our Water Clean
Presented by Jacobs

Learn about contaminants, how they infiltrate our water supply, and how scientists remove these contaminants to protect drinking water.

Fossil Fuel, the Good, the Bad and the Ugly
Presented by Anaheim Fire & Rescue

Learn how the use of fossil fuels can have various effects on our air, water and soil. You'll also learn about renewable and non-renewable sources. WARNING: Video contains images and messaging that may be upsetting to some viewers.

Virtual Tour of Trampas Canyon Dam & Reservoir
Presented by Santa Margarita Water District

Tour OC's largest recycled water reservoir. The 1.6 billion gallon reservoir and 216-foot dam are an impressive sight.

Grab & Go Resources

Grab-and-go activities are standalone activities that do not correspond to a particular video.

MONDAY, APRIL 19

The Scoop on Poop
Courtesy of The Ocean Institute

What do whales and humans have in common? We both have digestive systems that allow us to absorb nutrients and get rid of waste. But whale waste, aka poop, benefits the entire ocean. Learn about the important role Baleen whales play in our ecosystem.

Before and After
Courtesy of Republic Services

You may be tempted to throw that empty soda bottle or cereal box in the trash. But wait! Can it be recycled? This activity will teach you what can and can't be recycled, and the types of items your recyclables can turn into.

Comparing Light Bulbs
Courtesy of Energy Star

In this exercise, students will use a light to demonstrate the difference between being energy-efficient and energy-wasteful. And, learn what energy efficiency means.

TUESDAY, APRIL 20

Educator Guide: Oceans
Courtesy of Disneynature

This educator's guide extends themes from the Disneynature film OCEANS, and allows students the wonderful cast of characters that live in this world of liquid space. They will also learn how the oceans control much of what happens on land.

The Incredible Journey
Courtesy of Dublin San Ramon Services District

This lesson shows the complexity, efficiency and beauty of the water cycle. Each student becomes a water droplet, traveling to and from nine different stations: soil, plant, river, clouds, ocean, lake, animal, ground water, and glacier.

Build Your Own Mini Microscope
Courtesy of Orange County Public Libraries

Did you know water can act as a natural microscope? With a few common household items, build your own mini microscope.

WEDNESDAY, APRIL 21

Educator Guide: Wings of Life
Courtesy of Disneynature

This educator's guide extends themes from the Disneynature film Wings of Life. Learn all about pollinators.

Make Your Own Paper Model of a Volcano

Courtesy of U.S. Geological Society

Visualize a stratovolcano and learn terms used by geologists in describing it. Students will obtain a greater appreciation of the relationship between the internal structure of the volcano and its exterior shape and features.

COVID-19 Activity Book
Courtesy of Johns Hopkins Children's Center

Learn simple ways you can help prevent the spread of COVID-19.

THURSDAY, APRIL 22

Educator Guide: Earth
Courtesy of Disneynature

The educator's guide extends themes from the Disneynature film Earth. Five topics have been selected: The Earth and the Sun, The Great Migrations, Adaptation and Habitat, Predators and Prey, and Life Cycles.

Water Cycle in a Bottle
Courtesy of Orange County Public Libraries

Using a recycled water bottle and some simple ingredients, see the water cycle take place right before your eyes.

Prize Opportunity

Don't forget, you and your class have the opportunity to win a virtual field trip from [Inside the Outdoors](#), valued at \$300. Field trips will be awarded to 1) the class with the highest total view hours and 2) the highest number of video views. The hours and videos will be calculated on a per class basis and not an individual basis. Classes may only win one prize. Winning classes will be notified by email in late April and field trips may be scheduled directly with Inside the Outdoors based on both parties' collective availability.

Thank you again for registering to attend YES.

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