

This presentation premiered at WaterSmart Innovations

watersmartinnovations.com





moulton niguel water district

Online Education Center & Virtual Programs

WaterSmart Innovations Conference – Fall 2021

Justin Finch & Rhonda Himley

Moulton Niguel Water District

- Water, Wastewater, Recycled Water
- Serve 6 Cities in south Orange County, CA
- 37 Square Miles
- 170,000+ Customers
- 55,000 Accounts
- Import 100% of our Potable Water
- Meet 25% of Customer Demand with Recycled Water
- Water Budget-based Rate Structure



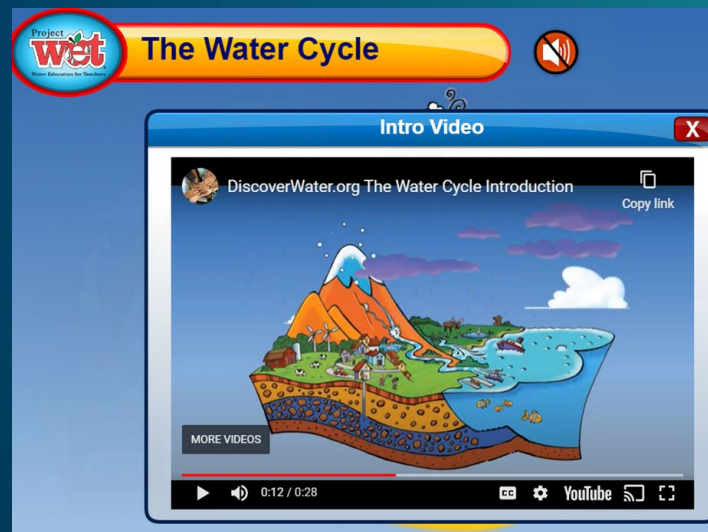
School Education Program Response to COVID-19

- Moulton Niguel's Online Education Center
- Watershed presentations & field trips
- Project WET teacher training
- Water UCI Middle School Challenge
- Youth Environmental Summit (YES)



Online Education Center

- Interactive Lessons
- Videos
- Posters
- Maps and more



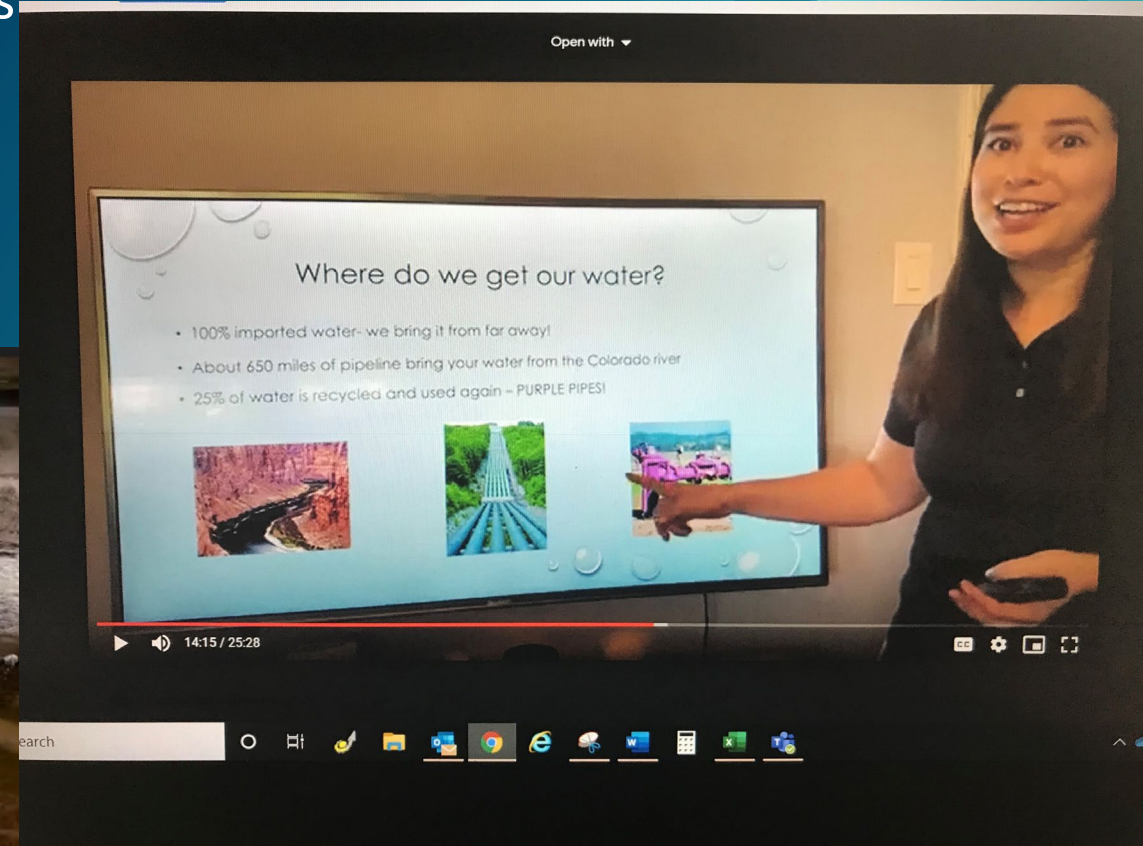
Online Education Center

- Video – Where Our Water Comes From



Online Watershed Presentations & Virtual Field Trips

- Audience: Middle School & High School Students
- 28 classes received virtual sessions
- Virtual instruction & water quality testing
- Record number of 1,227 students!



Watershed Fieldtrip Flyer

- STEM focus
- Appeals to Middle & High School educators
- Meets Next Generation Science Standards

CALLING ALL MIDDLE SCHOOL AND HIGH SCHOOL SCIENCE TEACHERS!





SCIENCE • TECHNOLOGY • ENGINEERING • MATHEMATICS

Free STEM-based science program for middle schools and high schools in the Moulton Niguel Water District service area.

 **Biology**  **Chemistry**  **Environmental Science** 

Explore the Aliso Creek watershed and perform water quality tests to evaluate the health of the creek.



WHAT'S INCLUDED:

- 1) Presentation (virtual or in-class) on watershed education & human environmental impacts
- 2) Field trip (virtual or in-person) to perform scientific water quality tests at a local creek





THIS WATERSHED PROGRAM PROVIDES THE FOLLOWING:

- Engaging real-world connections to science
- Discuss point and non-point source pollution
- Encourage students to get involved in their local watershed to help protect local creeks and beaches
- Alignment with **Next Generation Science Standards** (NGSS)
- Focus on DCI's (disciplinary core ideas) of **Earth and Human Activity**, plus cross-cutting concepts including cause and effect relationships

PROGRAM AVAILABLE: AUGUST 2021 - JUNE 2022





READY TO SIGN-UP?

Educators can register at
bit.ly/MNWDcoastkeeper

HAVE QUESTIONS?

Contact Dyana (OC Coastkeeper)
✉ dyana@coastkeeper.org
☎ 714-850-1965 x1004



Project WET Online Training

- Audience: Teachers
- Increased Participation
- Convenient for Teachers using Zoom
- Hybrid Workshops with Online Training Portal
- Chat & Breakout Features for Teachers to Share Ideas




WaterUCI Middle School Challenge

Community Academy Water Warriors

- Online presentations to teachers
- Virtual awards presentation by Water UCI



UCIRVINE

Water Conservation Challenge

Challenge:
You are to come up with an original idea to increase water conservation. Think sustainability.

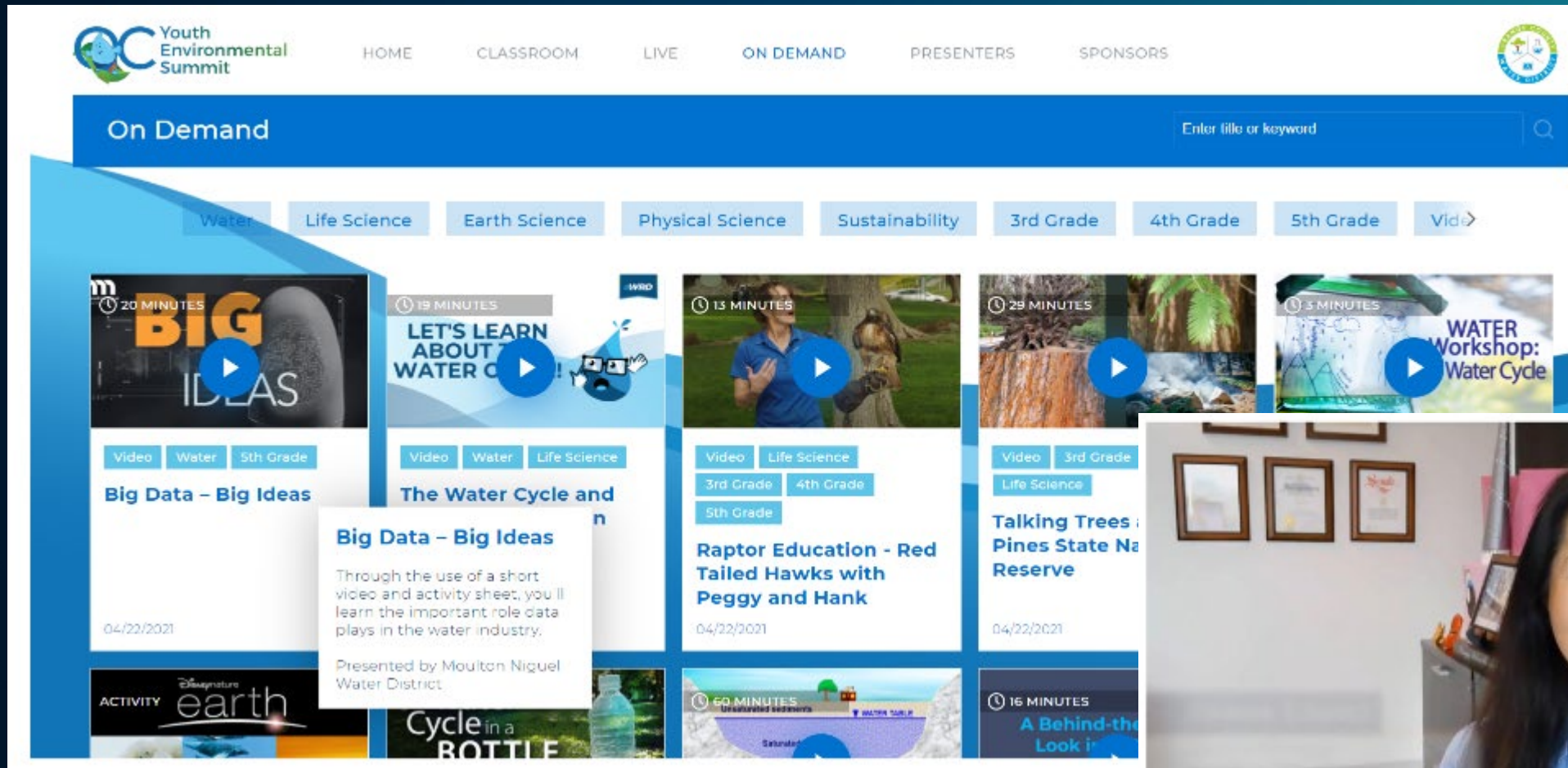
Criteria and Constraints:

1. Must be an original idea that can include a campaign, viral video, law or policy, water price structure, technology or any other methods to increase water conservation and raise drought awareness.

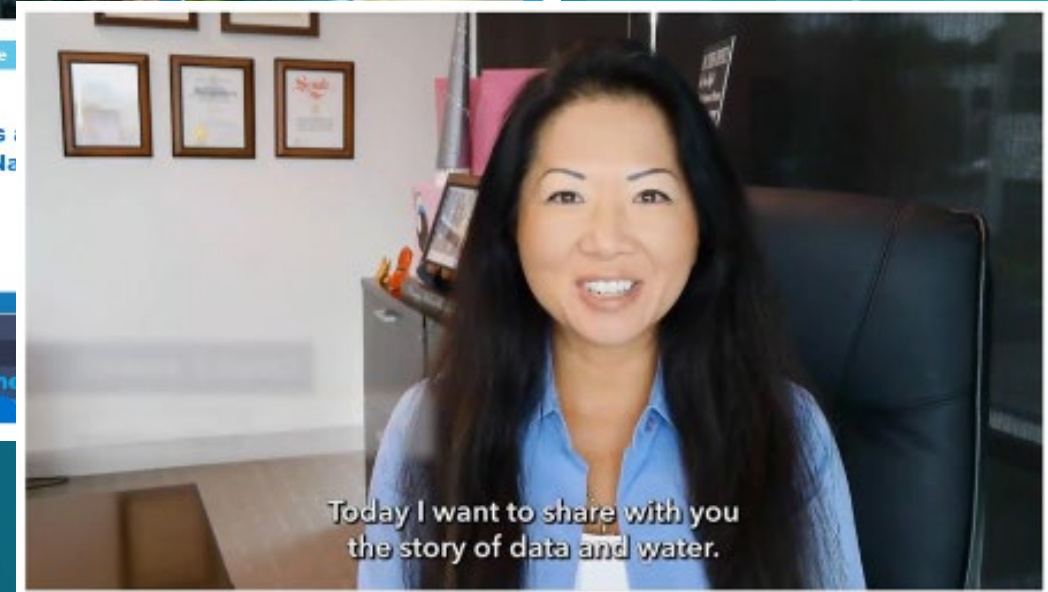


Orange County Water District Youth Environmental Summit (YES)

BIG DATA – BIG IDEAS Video



The screenshot shows the 'On Demand' section of the Orange County Youth Environmental Summit (YES) website. The navigation bar includes links for HOME, CLASSROOM, LIVE, ON DEMAND, PRESENTERS, and SPONSORS. A search bar is located on the right. Below the navigation bar, there are tabs for different topics: Water, Life Science, Earth Science, Physical Science, Sustainability, 3rd Grade, 4th Grade, 5th Grade, and Video. The main content area displays several video thumbnails with play buttons. The first thumbnail is titled 'Big Data - Big Ideas' and is 20 minutes long. It is categorized under Video, Water, and 5th Grade. The description states: 'Through the use of a short video and activity sheet, you'll learn the important role data plays in the water industry.' It is dated 04/22/2021 and presented by Moulton Niguel Water District. Other visible thumbnails include 'The Water Cycle and', 'Raptor Education - Red Tailed Hawks with Peggy and Hank', 'Talking Trees', 'Pines State Na Reserve', 'Cycle in a BOTTLE', and 'A Behind-the Look i'.



Other Educational Involvement

- Water Awareness Poster Contest
 - 86 submissions/7 MNWD winners
- (Record number!)

MUNICIPAL WATER DISTRICT OF ORANGE COUNTY presents...



Water Awareness POSTER CONTEST

ALL ORANGE COUNTY STUDENTS IN GRADES K-12 ARE INVITED TO CREATE POSTERS THAT REFLECT THE THEME:
#SAVE TOGETHER



WIN AN IPAD

One grand prize winner per grade division:
K-2 / 3-5 / 6-8 / 9-12 will win an iPad!

SUBMIT ARTWORK

PLEASE INCLUDE THE FOLLOWING INFORMATION WITH YOUR EMAIL SUBMISSION:

★ Student's Name	★ Teacher's Email
★ Grade Level	★ Parent's Name
★ School Name	★ Parent's Email
★ School District	★ Parent's Phone
★ Teacher's Name	

SEND CONTEST ENTRIES TO:



**POSTERCONTEST
@MWD OC.COM**

TEACHERS!

Make it a class project and be entered to win a FREE virtual, interactive water lesson for your students!

CONTEST RULES

★ **DEADLINE: MARCH 1, 2021** ★

- Now open to all Orange County children; however, only students in grades K-12 are eligible to receive a Grand Prize. All Pre-K entries will receive a personal letter from Ricky Raindrop.
- Submissions must reflect the student's own ability.
- Posters must be drawn horizontally on 8.5 x 11 in. paper.
- ORIGINAL ARTWORK ONLY. Posters submitted with copyrighted characters or images (e.g. Mickey Mouse) will not be accepted. Students are allowed to use the Ricky Raindrop character in their artwork. <https://bit.ly/RickyRaindropIMG>

All artwork will be the exclusive property of the Municipal Water District of Orange County for reproduction or promotional purposes, and may be published at mwdoc.com

QUESTIONS?
Postercontest@mwdoc.com
(714) 593-5004



2021 Water Awareness Poster Contest Winners



Questions?

(Easy Questions)

Justin Finch

JFinch@mnwd.com

(Hard Questions)

Rhonda Himley

RHimley@mnwd.com