

Welcome EDUCATORS!



LA STEM
collective



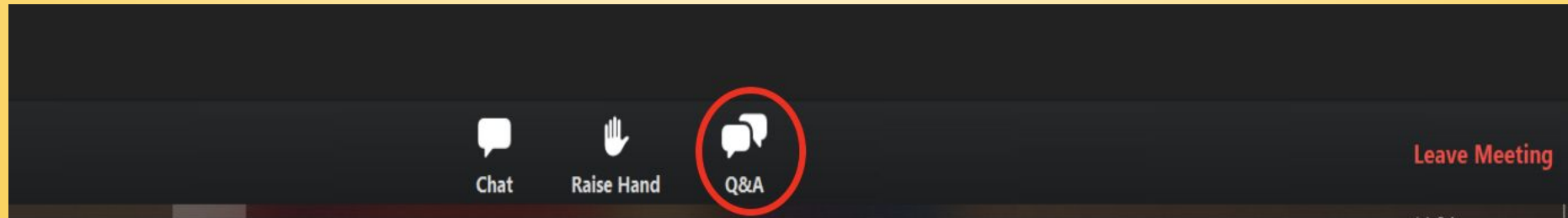
Open House

2021

Zoom Webinar controls



- Please enter questions in Q&A, if we can't answer them today, a follow up email will be provided to everyone.
- Chat can be used to get help or share information



A DROP IN THE BUCKET

- Grades 3-8, NGSS Alignment
 - Water Science & Conservation
 - Cost: \$0 for schools in LADWP & WBDWP service area
- In-person (90 mins): 60 participants per session, 2 sessions per day
 - Live-stream (45 - 60 mins): 30 participants per session, 3 sessions per day



www.wildwoodsfoundation.org/ADropInTheBucket

FULL CIRCLE

- Grades 4-6
- Community Building & Systems Thinking
- Cost: Please contact us for associated fees
- Governor's Environmental & Economic Leadership Award for Environmental Education
- Live-stream or in-person: 30 participants



CONTACT: Carol Peralta (213) 989 - 1955 Ext.2
CarolP@WildwoodsFoundation.org



Heal the Bay

Kelly Kelly and Robert Ramos

Programming

- Field Trips
 - In-Person (2-hour), 30 students max*
 - Virtual (1-hour), 50 students max
- Key to the Sea - Teacher workshops and field trip
 - Partners: Cabrillo Marine Aquarium, Roundhouse Aquarium, USC Sea Grant
- Camps
 - Winter, Spring, Summer
- SEA Education - online curriculum
 - Adaptations in the Rocky Shore (3-5th grade)
- After-school Enrichment
- On-campus visit (In development)

Topics

Grades K-12 lessons

- Habitats
- Plants VS Algae
- Food Webs
- Human Impacts
- Coastal Cleanup Education
- Careers in Science
- Custom Trips



Highlights

- Heal the Bay Aquarium
- Santa Monica Beach
- Environmental Stewardship
- Title 1 Grant Funding Available
- NGSS Aligned Curriculum
- Teacher Workshops
- Follow COVID protocols

Learn more at:
healthebay.org/education
Contact:
education@healthebay.org





PSscience®

SEE. DO. KNOW.

Program Offerings (K-5):

- **In-Classroom**
 - NGSS-aligned, hands-on weekly lessons
- **After School Clubs**
 - STEM Clubs
 - Code Clubs
- **Spring/Summer Camps**
- **YouTube Channel**

info@psscience.org for more information!



@PSScienceOrg



In-classroom Program

- Free for Title 1 schools; super-easy to teach!
- 31 weekly, video-based science lessons
- Materials and Live Instruction can be purchased

Clubs & Camps

- After School STEM & Code Clubs
 - Virtual or In-Person
 - Led by PS Science Instructors
- Two-week summer camp/one-week spring camp for highly motivated students

YouTube Channel

- PS Science (<https://bit.ly/3bY5syF>)
- At-home science for K-5 students
- 11 playlists on science topics with 5-15 videos



info@psscience.org for more information!





VIRTUAL Field Trip

to the **California Science Center**



Video
Episode

Activity

Live
Program

Kinder - 5th grade
Life Science available
Physical Science coming soon
Spanish and English



LIFE SCIENCE - FIFTH GRADE - STUDENT GUIDE

seed to sprout

FOCUS QUESTION:
HOW DO ORGANISMS FUEL THEMSELVES TO SURVIVE?

BUZZWORD:
energy

THE SITUATION:
Luis and Kiana just learned things need energy and matter help them to grow.
- Kiana thinks seeds only need water as fuel to sprout.
- Luis thinks seeds also need fuel to sprout.

Who do you agree with?

HYPOTHESIS:
I agree with _____ because _____

Write your answer in this text box, or on a sheet of paper (such as in a notebook).

A free resource created by the California Science Center

Información adicional

¡Comparta los experimentos de sus estudiantes en las Redes sociales para una oportunidad de ser presentado!

¡CONÉCTESE CON NOSOTROS!

Visite el California Science Center virtualmente o en persona para explorar este estándar y ampliar la actividad con contenido relacionado.

• **Vea un video gratuito:** Acompañe a nuestros educadores para observar cómo los organismos en el Kelp Forest del California Science Center y el Rose Garden se alimentan para sobrevivir.

• **Reserve una experiencia interactiva en vivo:** Invite a animales embajadores del California Science Center a visitar su salón de clases virtualmente para explorar cómo se mueve la energía en un ecosistema.

• **Visítenos en persona:** Visite nuestro World of Life Gallery para ver más ejemplos de cómo los seres vivos se alimentan para sobrevivir.

EXTENSIONES

• Pese la semilla/brote todos los días. Pida a los estudiantes que discutan y construyan una explicación sobre el origen del aumento de peso.

• Compare las semillas cultivadas en diferentes condiciones al permitir que los estudiantes varíen la cantidad de sol, agua o aire.

Un recurso gratuito creado por el California Science Center **Página 4**



<https://californiasciencecenter.org/programs/virtual-field-trips>



**FRIENDS OF THE
LA RIVER**

Education Programs

Dennis Mabasa (they/them)

Director of Education

dennis@folar.org





**FRIENDS OF THE
LA RIVER**

Program Options (Grades 3-12)



River Rover



**Field
Programs**

REGISTER TODAY!

All programs are live & include a question/answer session

Emily Morris, Education Programs Coordinator
emorris@pacificmmc.org

Meet the Patients

Ocean Emergency

Marine Mammal Senses

Chat with an Expert

California Sea Lion History & Ecology

Stewards of the Sea

Pacifcmmc.org/distance-learning



Co-Program Director:
Sharky

Welcome to Waterfront Education!

**K - 6th Grade
Some Middle School/High
School**

Learn more at:

www.waterfronteducation.squarespace.com

Contact:

learn@waterfronteducation.org



We Provide...

VIRTUAL LEARNING

OUTDOOR PROGRAMS

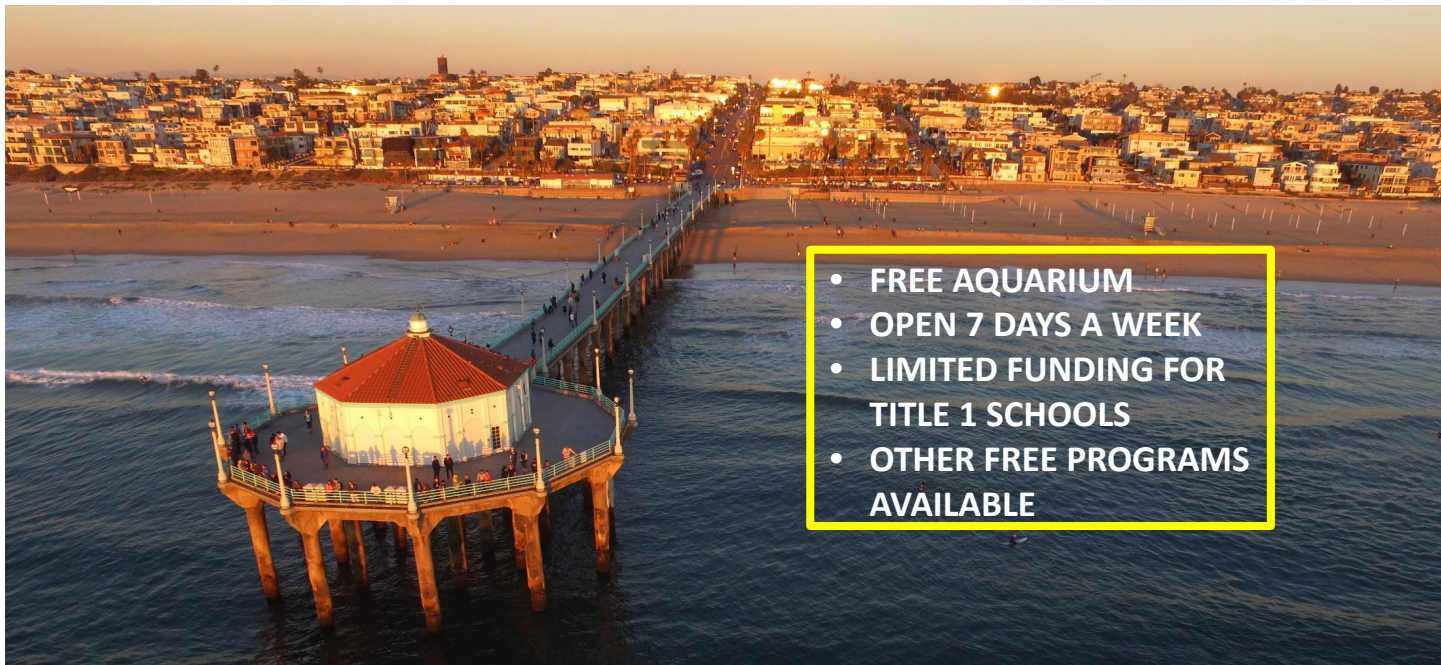


Let's make an
Ocean in a Bottle!



ROUNDHOUSE AQUARIUM TEACHING CENTER

MANAGED BY THE OCEANOGRAPHIC TEACHING STATIONS, INC.



- FREE AQUARIUM
- OPEN 7 DAYS A WEEK
- LIMITED FUNDING FOR TITLE 1 SCHOOLS
- OTHER FREE PROGRAMS AVAILABLE



WWW.ROUNDHOUSEAQUARIUM.
ORG



ROUNDHOUSE AQUARIUM
TEACHING CENTER

MANAGED BY OCEANOGRAPHIC TEACHING STATIONS, INC.

ROUNDHOUSE AQUARIUM PROGRAMS



www.roundhouseaquarium.org

310.379.8117

info@roundhouseaquarium.org

Brittney Olaes, Program Director

Dawn Martin, Administrative
Manager



[WWW.ROUNDHOUSEAQUARIUM.
ORG](http://WWW.ROUNDHOUSEAQUARIUM.ORG)



**ROUNDHOUSE AQUARIUM
TEACHING CENTER**
MANAGED BY OCEANOGRAPHIC TEACHING STATIONS, INC.

TreePeople

- Eco-Tours (K-6)
- Family Tours
- Moonlight Hikes
- Virtual Enrichment (K-2)
- Traveling Dirt Doctor (K-5)



TreePeople **LEARN @HOME**

- Over 100 videos and activity sheets
- A variety of environmental topics
- Available in English and Spanish
- <https://www.treepeople.org/learn/>

Volunteer!

Generation Earth

For LA County teachers (grades 6-12)

- FREE Teacher Workshops
- FREE Project Toolkits
- FREE Personalized Support
 - Book an Expert
- FREE Bus for an Eco field trip!

Contact:
sackerman@treepeople.org

Virtual Programs

Connecting you to the wonders of the ocean!



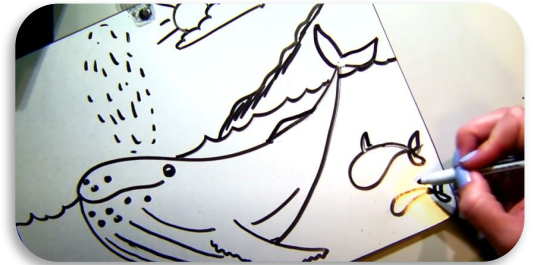
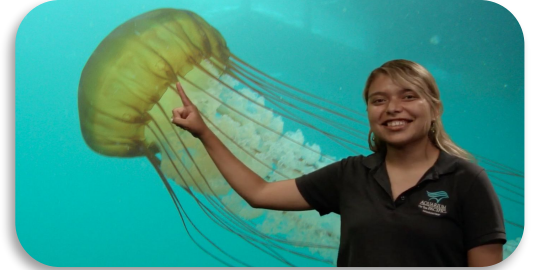
Check out the Aquarium's school
and teacher resources at
<https://www.aquariumofpacific.org/education>

Virtual Field Trips



- Interactive & student-centered
- Zoom connections
- Monday - Friday
- Programs offered for pre-K – 12th

Aquarium Online Academy



- Free live 30 min virtual programs
- YouTube channel
- Mon/ Wed (Spanish)/ Fri
- Text-in questions

On-Site School Programs

Self-guided Field Trips



Educational Programs



Community Programs

Aquarium on Wheels

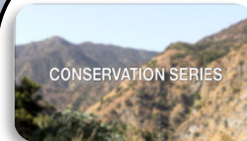


- Available Spring 2022
- Live tidepool animals & auditorium programs



Teacher Resources

Educational Video Series



- Free K-12th grade classroom resources
- Teacher workshops

Check out these programs here:

<https://www.aquariumofpacific.org/education>

Alicia Archer, Education Program Manager

aarcher@lbaop.org





5 GYRES

SCIENCE TO SOLUTIONS

Trash Academy



Contact Info:

Eliseo Nevarez

eliseo@5gyres.org



5 GYRES.org
SCIENCE TO SOLUTIONS



What is the history of plastic and why is it...



What happens to plastic after we use it? I...



What are watersheds and why do they m...



What do those numbers on the bottom of...





DiscoveryCube®
OC & LA

Discovery Cube's mission is to inspire and educate young minds through engaging science based programs and exhibits to create a meaningful impact throughout Southern California. Focused on four core initiatives: STEM Proficiency, Environmental Stewardship, Early Learning and Healthy Living, Discovery Cube's programs aim to bring children and science together in a fun learning environment that promotes wellness, school readiness and science literacy.



**Enjoy science adventure
right in your own school!**

Experience a hands-on adventure in science without leaving the classroom. Discovery Cube comes to you with engaging workshops and assemblies correlated with NGSS and taught by experienced science educators.

WORKSHOPS

ASSEMBLIES

Pre-K

- Sound Exploration (minimum 4 years old)

None

KINDER

- Buzzy Bees
- Diary of a Worm
- Sound Exploration
- Portable Planetarium

- Bubbles
- Nature Connections
- Science Magic
- **Virtual:** Bubble Seasons

GRADE 1

- Buzzy Bees
- Diary of a Worm
- Sound Exploration
- Portable Planetarium

- Bubbles
- Nature Connections
- Science Magic
- **Virtual:** Bubble Seasons

GRADE 2

- Fossils
- Owls Are A Hoot!
- Science Rocks!
- Portable Planetarium

- Reaction Lab
- Super Cool
- Science Magic
- **Virtual:** Pet Power

GRADE 3

- Electric Circuits
- Engineering Design: Structures
- Engineering Design: Build a Nest
- Forces and Motion
- Fossils
- Owls Are A Hoot!
- Portable Planetarium

- Motion Commotion
- Watt's Current
- Science Magic
- **Virtual:** Pet Power

2 locations with brand new exhibits!

OPEN Monday – Sunday: 10 am – 5 pm
2500 N Main Street, Santa Ana, CA 92705

OPEN Thursday – Sunday: 10 am – 5 pm
11800 Foothill Blvd, Sylmar, CA 91342

GRADE 4

- Electric Circuits
- Electric Motors
- Engineering Design: Structures
- Engineering Design: Build a Nest
- Portable Planetarium
- Science Rocks!

- Watt's Current
- Science Magic
- **Virtual:** A Pollinator's Journey

GRADE 5

- Engineering Design: Structures
- Engineering Design: Build a Nest
- Forces and Motion
- Portable Planetarium
- Science Rocks!

- Motion Commotion
- Reaction Lab
- Super Cool
- Science Magic
- **Virtual:** A Pollinator's Journey

GRADE 6-8

- Pig Heart Dissection
- Portable Planetarium

- Super Cool
- Science Magic (6th only)

Discovery Cube will provide Health & Safety guidelines for in-person programming. All programs, pricing and content are subject to change without notice.

Call 714-913-5030 or email Groups@Discoverycube.org to book your Science To Go program!

discoverycube.org

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I N S P I R E

E D U C A T E

I M P A C T



FREE online STEM Resources and Activities

Elena Serratos
Program Manager, Education
714-263-3866
eserratos@discoverycube.org
www.discoverycube.org
www.discoverycubeconnect.org

To book programs Contact:

Lianne Leiss
Director, Group Sales and Partner Relations
714-263-3815
lleiss@discoverycube.org

Sustainability Science Sleuths

Extended Learning Program



DiscoveryCube
CURRICULUM

BRIDGE LEARNING GAPS: An engaging hands-on STEM learning program that is flexible and easy to implement

What's Included

Discovery Cube's extended learning programs include end-to-end educator support tools designed to maximize impact and student learning while minimizing required preparation time.



COMPLETE HANDS-ON
CURRICULUM



EASY-TO-FOLLOW
TEACHER GUIDES



DAILY CLASS-READY
SLIDES, HANDOUTS
& SUPPLY KITS



PROFESSIONAL
DEVELOPMENT

Benefits

Students and Families

- ✓ Hands-on, minds-on learning
- ✓ Gamified and fun:
Up to 18 hands-on activities
Up to 4 badges to earn
- ✓ Engage the whole family with
access to Discovery Cube
Connect

Educators

- ✓ Developed by teachers for
teachers
- ✓ Easy to source supplies:
complete kits available, or
build your own
- ✓ Fun to teach: measurably
higher student engagement

Schools

- ✓ Each session mapped to
3rd-5th grade NGSS
- ✓ Helps bridge learning gaps
- ✓ Whole-Student focus
- ✓ Flexible two-module program for
5 - 15 learning sessions

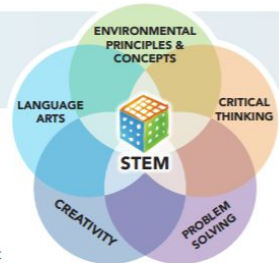
**"I have really enjoyed teaching this program
to the students and I have recommended it to
many of my colleagues." - LAUSD Educator**

Discovery Cube Extended Learning Programs

Discovery Cube is passionate about STEM! We take a whole-student approach to education and connect STEM with ELA learning principles to inspire young minds to explore and impact the world they live in.

Fun, interactive, hands-on activities are fundamental to student engagement!

Contact us: discoverycube.org/contact-us/



Learn & Explore with the Resource Conservation District of the Santa Monica Mountains!



www.rcdsmm.org/education

The RCD has been a leader in environmental education since 1964. Our award-winning outdoor education programs have spread the message of environmental stewardship to thousands of students every year for decades.

We lead programs at...



Sepulveda Basin Wildlife Reserve



Malibu Lagoon State Beach



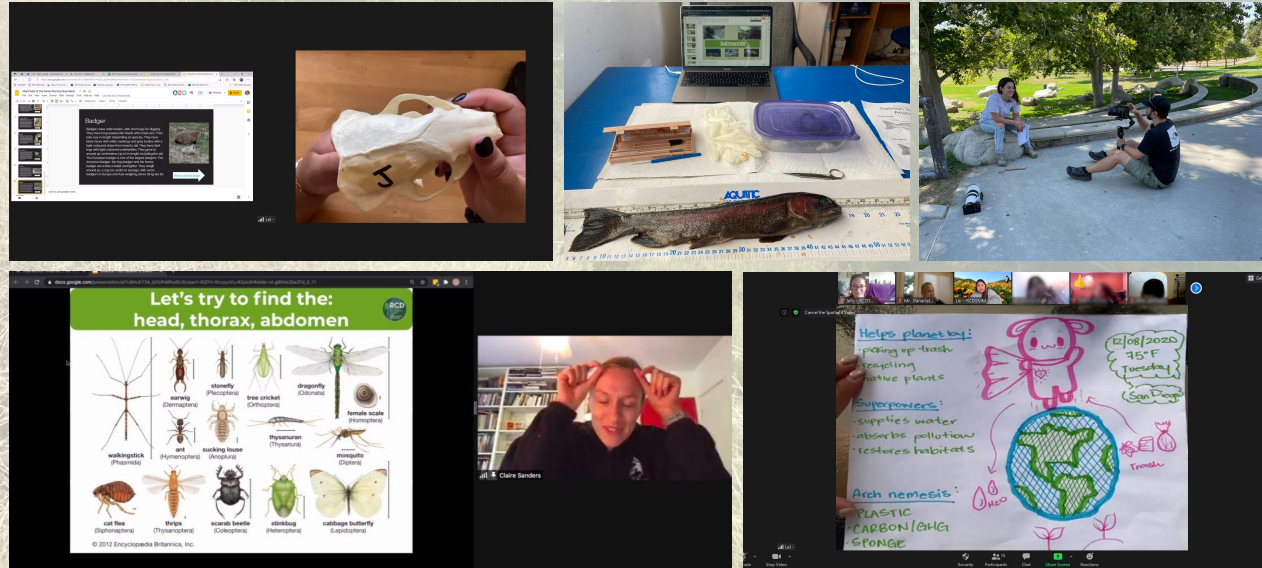
Topanga State Park

Learn & Explore with the Resource Conservation District of the Santa Monica Mountains!



www.rcdsmm.org/education

The RCD doesn't just lead outdoor programs, we also provide opportunities for students to connect with nature no matter where they live through our virtual and Place Based Journaling programs!



Get to know the Ballona Creek Watershed!

Field trips, in-class & virtual programs for grades 3-12



Baldwin Hills Parklands



Ballona Wetlands



Dockweiler Beach

Emily Cobar, Community Program Director
emilycobar@gmail.com



We collaborate with K-12 schools, teachers, and students to strengthen STEM pathways that broaden college and career options.

Our programs and research-based interventions offer project-based experiences that support the Common Core and Next Generation Science Standards and serve the nation's urgent need for a STEM-ready workforce.

<https://viterbik12.usc.edu>

Email Mary at kbonapar@usc.edu to connect!



Computer Science Education Week: mid-Nov. through early Dec.

Elementary: Hour of Code workshops for K-2 and 3-5 Teachers; Family Code Nights (English and Spanish sessions).

Middle + High School: Hour of Code Workshops for MS + HS Teachers; Actionable Ways to Grow your CS Program workshop for Teachers; AI for Social Good session; USC CS Student Organization Panels.

ALL: Sign up for a virtual classroom visit from one of our USC CS students!

FREE!
Registration required



<https://viterbik12.usc.edu/cs-ed-week/>



MOUNTAIN & SEA

ADVENTURES





Programs

- Overnight Field Trips
- Floating Sea Lab Field Trips
- Summer Camp



Enhydra
115 ft mini cruise
ship!



Activities Include...

Snorkeling,
kayaking, hiking,
plankton trawls
and more!

Making World Changing Adventurers!

Contact
Office@mountainandsea.org

Walter Munk Foundation for the Oceans ~ Virtual Field Trips

Marine Ecology, Conservation, and Stewardship

Exploring the Tide Pool Universe

Hunters of the Kelp Forest

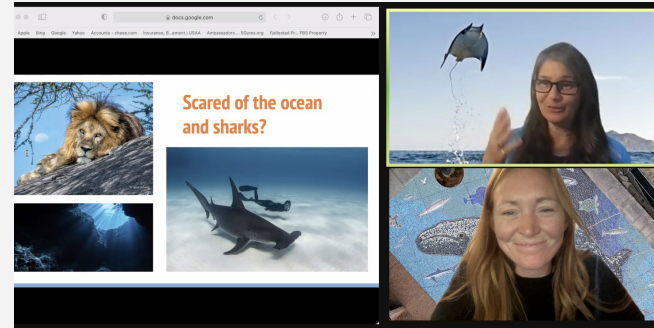
A Diver's View of the Underwater World

Marine Mammals

Sharks and Rays

The Value of a Whale

Customized Classes available upon request!





THE MAP

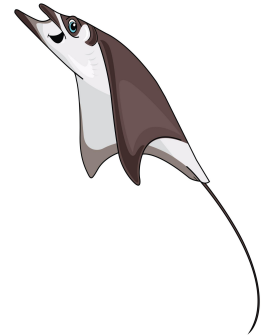
of the Grand Canyons of La Jolla

Visit the virtual MAP:
waltermunkway.org

[@oceanexplorer_waltertheray](https://www.instagram.com/oceanexplorer_waltertheray)

[FB: Ocean Explorer Walter the Ray](https://www.facebook.com/OceanExplorerWaltertheRay)

Contact info:
education@waltermunkfoundation.org





Battleship USS IOWA Museum

Explore the fundamentals of STEM through hands-on activities anchored in history, maritime science, and international trade.

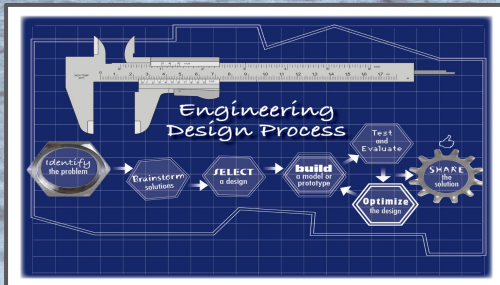
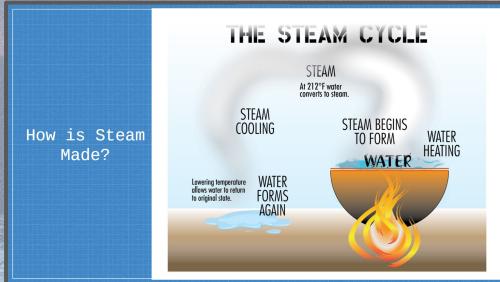
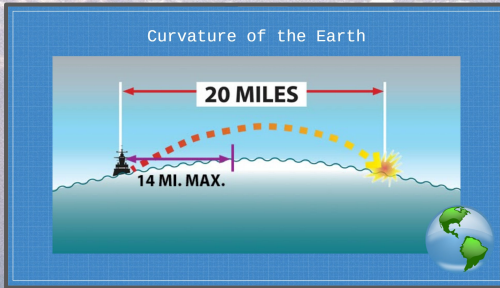


Tiffany Ellerbeck
Education Manager
tellerbeck@labattleship.com
877-446-9261 ext,749
pacificbattleship.com

In-Person Field Trips - STEAM at Sea and Day of Discovery



Virtual Field Trips - Virtual STEAM at Sea



Overnight Program - Camp Battleship





Overnight science camp for 5th-12th grade

We offer 3, 4,
and 5 day trips

Trips available
Monday-Friday.
March-May and
September-mid
November

Cabins sleep
160. Tents
sleep 500.

NGSS-aligned
curriculum and
on-site aquarium

www.emeraldbayoutdooracademy.org

<https://www.youtube.com/channel/UCUgFpTLme1sFwP0nZ927gg>

Contact: Alix Fulham
alix.fulham@scouting.org
310.693.4883



Course Examples:

- Stewardship
- Kelp Forest Ecology
- Snorkeling
- Marine Protected Areas
- Fish Dissections
- Astronomy
- Hikes
- Marine Invertebrates

We also offer a professional development retreat once a year

**MOVE THE
WORLD**

Climate Regeneration Solutions

Climate Arts. Climate Education. Climate Solutions.

Movetheworldnow.org

SAVES \$74 TRILLION



NATURE MAKES US HEALTHY

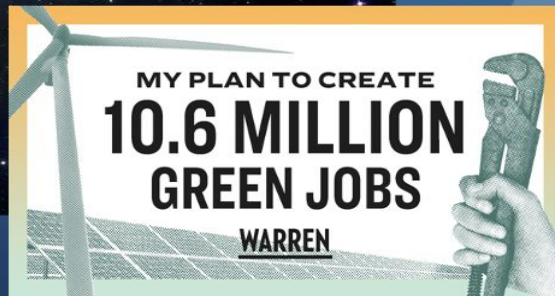


EQUITY FOR ALL PEOPLE



**PLANET
EARTH**

GREEN JOBS= OUR FUTURE





FULL CIRCLE COMPOST PROGRAM: info@movetheworldnow.org



Fire resiliency. Increase Water holding capacity. Biodiversity. Microbiology.



Hands on skill- building



School Installations



Virtual & Live Classes



*using the inspirational
environments of sailing tall ships
and the ocean to emotionally
connect students to practical and
engaging application of STEM
principles*



Los Angeles Maritime Institute

San Pedro, CA

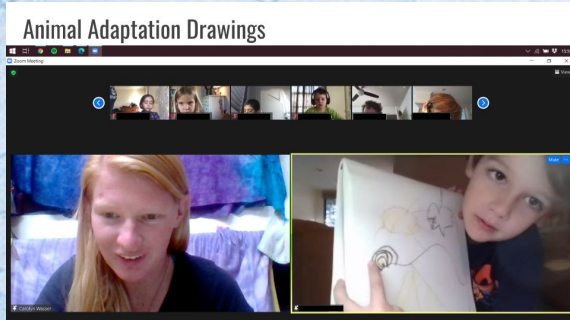
www.lamitopsail.org

info@lamitopsail.org

(310) 833-6055



- 3-hr, day, or multi-day voyages - 4th-12th
- after-school marine science clubs - 8th-12th
- summer camps
- internships and workforce development
- virtual field trips - 3rd-12th
- online courses or single lessons - K-12th
- bi-lingual educational resources - 3rd-12th
 - videos, lesson plans, and activities



Available STEM subjects include:

**WATERSHED ECOLOGY ♦ EARTH and OCEAN SYSTEMS ♦ WATER QUALITY and POLLUTION ♦ MARINE ZOOLOGY ♦ OCEANOGRAPHY
♦ MARINE CONSERVATION ♦ PHYSICS of SAILING ♦ MATHEMATICS in NAVIGATION ♦ MARITIME ENGINEERING**

An online program that utilizes technology to take filmmaking to a whole new level. Our innovative approach allows girls and non-binary youth to learn the important technical skills that are needed to make a film in a collaborative, safe environment.



Industry professionals teach online classes and workshops on a variety of technical and creative aspects of filmmaking including:

- Editing
- Camera work
- Lighting
- Sound Animation
- Writing Producing
- Directing

To learn more about GirlsINFocus please visit our website:

<https://www.girls-in-focus.com>

Columbia Memorial Space Center

- Space Museum and Hands-on STEM Learning Center
- Challenger Center and Robotics Lab
- Historic NASA site in Downey

columbiaspacescience.org
[@columbiaspace](https://twitter.com/columbiaspace)





columbiaspacecenter.org

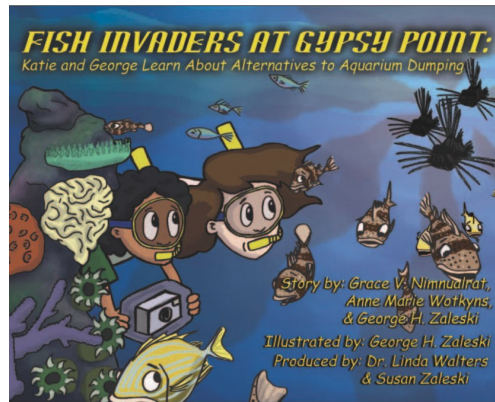
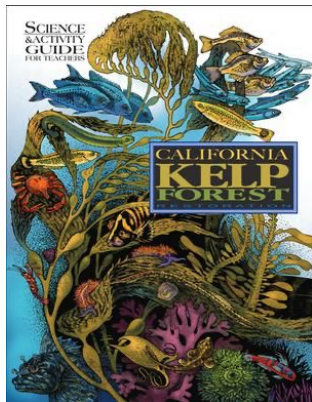
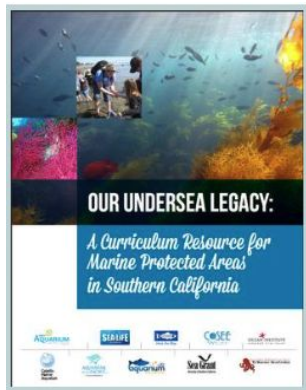
- Virtual Field Trips - All Grades
- Virtual Missions to the Moon or Mars - 5th Grade and Up
- STEM Programs On-Site and Off-site
 - Girls in STEM Club
 - Hands-on Outreach
 - Early Childhood
- In-Person Field Trips in 2022
- City of STEM Fest - April 2022
cityofstem.org

info@downeyspacecenter.org



Connecting Ocean Science Research and Policy to Education

- *Curricula*
- *Experiential Learning Resources*
- *Connecting Students to Researchers*



<https://dornsife.usc.edu/uscseagrants/ce-curricula/>

Linda Chilton, Education Coordinator

lchilton@usc.edu

Maria Madrigal, Education Specialist

mdmadrig@usc.edu

NHMLAC Education Programs

- **Free field trips: Pre-K - 12 CA accredited schools (NHM & LBTP)**
- **Mobile Museum School Residencies (Spring 2021)**

Asynchronous Offerings

- Online Learning Resources:
 - Videos
 - Lesson Plans
 - Activities
 - Teacher Guides
- Self-Guided Field Trips

Synchronous Offerings

- Live Museum Presentations (Zoom Webinars)
- Live Student Programs (Zoom Meetings)



Upcoming Educator Workshops

- **NHM**

- December 4: *Becoming Jane* & Empathy Building with Live Animals
- Feb TBD: Community Science Harvester Ant Project
- April 23: *Los Angeles Underwater*

- **TAR PITS**

- November 6: Teaching Climate Change
- January 29: Paleoart & Scientific Illustration
- March 19: From the Yukon to Los Angeles - New Research

- **Virtual Teacher Trainings**

- Androcentrism and the Impossible Male
- How We Museum: Learning Resources with NHM
- Partnership with the Fernandeno Tataviam Band of Mission Indians



Cabrillo
Marine
Aquarium



<https://www.cabrillomarineaquarium.org/education>



**Cabrillo
Marine
Aquarium**



Cabrillo
Marine
Aquarium

<https://www.cabrillomarineaquarium.org/education>