



CRS

COMMUNITY RESOURCES FOR SCIENCE
practical support for great science teaching

1611 San Pablo Avenue, Suite 10B
Berkeley, California 94702
(510) 527-5212 • www.crscience.org

Education Programs

Fifth Grade - Earth Science

Program Type: Assembly

Alameda Countywide Clean Water Program
Hayward

http://www.cleanwaterprogram.org/index.php?option=com_zoo&view=item&Itemid=237

Various sponsored assemblies

<https://www.cleanwaterprogram.org/index.php/programs/schools.html>

Grade Levels: K;1st;2nd;3rd;4th;5th;6th;7th;8th;9th;10th;11th;12th

Check out their website for annual updates of programs for students in Alameda County. Contact providers directly

1. Storm Drain Rangers - For 3rd - 5th grade
2. Caterpillar Puppets: For K-3rd grade
3. Fun & Learning in the Water - For 4th & 5th grade

Banana Slug String Band
Santa Cruz

<http://www.bananaslugstringband.com>

The Awesome Ocean

<http://www.bananaslugstringband.com/pages/workshops.html>

Grade Levels: K;1st;2nd;3rd;4th;5th;6th

A group of lovable musicians, songwriters and educators. The Slugs blend music, theater, puppetry and audience participation to create a fun-filled learning environment. Based on the Slug's award winning Slugs at Sea, and the Project MARE Oceans week curriculum, this program focuses on the habitats of the West Coast. Favorite Slugs songs such as the Water Cycle Boogie are featured.

We All Live Downstream

<http://www.bananaslugstringband.com/pages/workshops.html>

Grade Levels: K;1st;2nd;3rd;4th;5th;6th

The Slugs blend music, theater, puppetry and audience participation to create a fun-filled learning environment. All about watersheds and our role in protecting and teaching about them. This will engage the students, their families and communities in learning about how activities within their communities affect the quality of water that is used in their everyday living.

Caterpillar Puppets

<http://www.caterpillarpuppets.com/>

The Froggy Report

<http://www.caterpillarpuppets.com/index.html>

Grade Levels: K;1st;2nd;3rd

Free for Alameda County schools. Give them a call for scheduling. Assembly that addresses issues of watersheds? What is a watershed. What is a storm drain? What is pollution? A free 30 minute puppet show!

Chabot Space and Science Center

Oakland

<http://www.chabotspace.org>

Portable Planetarium - Cosmic Ray Planetary Theater

<http://www.chabotspace.org/forms/chabot-to-go.htm>

Grade Levels: K;1st;2nd;3rd;4th;5th;6th;7th;8th;9th;10th;11th;12th

The Cosmic Ray planetarium allows its audience to explore any part of the known universe. The Cosmic Ray runs on the same software that we use for our live planetarium shows here at Chabot Space & Science Center. Our presenter will provide an overview of our Solar System and beyond. Live show sare approximately 15 minutes long. Prerecorded shows are 40 minutes long.

Portable Planetarium - StarLab

<http://www.chabotspace.org/forms/chabot-to-go.htm>

Grade Levels: K;1st;2nd;3rd;4th;5th;6th;7th;8th;9th;10th;11th;12th

The StarLab is a portable planetarium that allows its viewers to explore the night sky. One of Chabot's knowledgeable instructors will help the audience identify major constellations and guiding stars. The show may also include ancient myths from different cultures! The StarLab consists of a single light bulb, and cylinders depicting different star fields. Show are approximately 15 minutes long.

Comets and Shooting Stars

<http://www.chabotspace.org/forms/chabot-to-go.htm>

Grade Levels: K;1st;2nd;3rd;4th;5th;6th;7th;8th;9th;10th;11th;12th

There are hundreds of thousands of comets out in the Kuiper Belt, but now you can make one in your school! This presentation explores what comets are made out of, and how they're related to meteor showers.s.

Chabot-to-go - Travelling Science fair

<http://www.chabotspace.org/forms/chabot-to-go.htm>

Grade Levels: K;1st;2nd;3rd;4th;5th;6th;7th;8th;9th;10th;11th;12th

Chabot Space & Science Center's traveling science fair will come to your school evenings and weekends. Chabot-to-go features at least four tables of hands-on space and science activities for all ages. Perfect for PTA functions, family science nights or other special events.

Earth Adventure

Circle Pines

http://www.earthadventure.org/Earth_Balloon.cfm

Earth Balloon School Assembly Program

http://www.earthadventure.org/Earth_Balloon.cfm

Grade Levels: K;1st;2nd;3rd;4th;5th;6th;7th;8th;9th;10th;11th;12th

The Earth Balloon program is most often used in elementary and middle schools as a school assembly program. Grade level appropriate content is taught that includes specific learning objectives and matches to many earth science and geography education standards. Programs include content presentation, interactive question and answers, inquiry based learning, demonstration and activity.

- Grade K: Our Amazing Earth - animals and their environments
- Grade 1: Hello Meet the Earth - an introduction to the planet
- Grade 2: Earth Explorations - continents and oceans
- Grade 3: Rain or Shine - precipitation, temperature, and patterns
- Grade 4: Biomes and Ecosystems - rain forests, deserts, and more
- Grade 5: The Fractured Earth - a look at plate tectonics
- Grade 6: The Ever Changing Earth - processes that shape and form the planet

Rock Steady Juggling El Granada

<http://www.rocksteadyjuggling.com/index.html>

Go With the Flow

<http://www.rocksteadyjuggling.com/gowiththeflow.html>

Grade Levels: K;1st;2nd;3rd;4th;5th;6th;7th;8th

'Go With the Flow' - Why would Doug juggle a large skillet full of greasy bacon and sausages, a toilet seat and gooey slime?! To educate students and teachers about wastewater issues and how to properly dispose of household Fats, Oil, Grease (FOG) in our newest and timely assembly program. Watch a video of FOG Fighter Doug!

Program Type: Family Science Night

Chabot Space and Science Center Oakland

<http://www.chabotspace.org>

Portable Planetarium - StarLab

<http://www.chabotspace.org/forms/chabot-to-go.htm>

Grade Levels: K;1st;2nd;3rd;4th;5th;6th;7th;8th;9th;10th;11th;12th

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Mount Diablo Astronomical Society Walnut Creek

<http://www.mdas.net/outreach/outreach.htm>

Astronomy Night

<http://www.mdas.net/outreach/outreach.htm>

Grade Levels: K;1st;2nd;3rd;4th;5th;6th;7th;8th;9th;10th;11th;12th

They will gladly organize an astronomy night for your school, youth group, or other community organization. Members volunteer their time and their telescopes to bring the Universe to you. They can also provide knowledgeable speakers and activities on various astronomy topics either in a classroom/meeting setting or in conjunction with a night at the telescopes. All of programs are no-cost, but donations to help offset our printing and outreach expenses are excepted. A few requirements if you would like a night with the telescopes. For example, the stars and faint celestial objects are best viewed without a full moon, and at a site with access to a fair portion of the sky, minimal artificial lighting, and easy access for setting up our telescopes. Please give yourself ample time to organize and publicize, and for us to staff, your event. Lastly, we want to make sure we can accommodate the size of your group.

Program Type: Field Trip

Ano Nuevo State Reserve Pescadero

http://www.parks.ca.gov/default.asp?page_id=523

Self Guided Elephant Seal Walk

http://www.parks.ca.gov/?page_id=27613

Grade Levels: 1st;2nd;3rd;4th;5th;6th;7th;8th;9th;10th;11th;12th

When docents are unavailable April-November, self guided tours are available with permit only. Free permits are obtained the day of the visit on a first come first serve basis. The group will walk along roped off trails, and docents are available to answer questions. A self-guided tour book is available for \$1.50.

Aquarium of the Bay San Francisco

<http://www.aquariumofthebay.org/>

Shark Adventures

<https://www.aquariumofthebay.org/teachers/k-12-programs/>

Grade Levels: 1st;2nd;3rd

Discover the amazing world of the sharks by observing the Aquarium's sharks and exploring their adaptations to their watery habitat.

Salmon!

<https://www.aquariumofthebay.org/teachers/k-12-programs/>

Grade Levels: 1st;2nd;3rd

Experience the amazing life cycle of salmon. Follow the life of a salmon from egg to adulthood, when they leave the open ocean to return to their birth stream in the San Francisco Bay's watershed.

Classroom programs offer your students a more formal education experience in our new classroom by K-Dock, home of the world famous PIER 39 sea lions. They can be coupled with a self-guided tour of the Aquarium to further enhance your visit.

Program Length: 1 hour, not including travel time to the Sea Lion Center

Days Offered: Monday - Thursday - Times Offered: 10 am and 11:30 am

Number of Participants: Limit of 35 students per program

Self-Guided Tours

<https://www.aquariumofthebay.org/teachers/k-12-programs/>

Grade Levels: K;1st;2nd;3rd;4th;5th;6th;7th;8th;9th;10th;11th;12th

For groups that only have a short time to visit, a self-guided Aquarium tour is the best option. Self-guided tours are flexible and give your group an awe-inspiring look at the life of San Francisco Bay.

Bay Area Discovery Museum

Sausalito

<http://www.baykidsmuseum.org/>

Discover-It-Yourself Visits

<https://bayareadiscoverymuseum.org/educators>

Grade Levels: K;1st;2nd;3rd;PK;TK

seven exhibitions are research-backed and provide STEM-focused, inquiry-driven experiences that help children develop creativity and creative problem solving skills. Look out Cove, Art Lab, Fab Lab, Imagination Playground, Bay Hall, Tot Spot, and a changing exhibit hall

Bay Model Visitor Center

Sausalito

<http://www.spn.usace.army.mil/Missions/Recreation/BayModelVisitorCenter.aspx>

Guided Ranger Tour

<http://www.spn.usace.army.mil/Missions/Recreation/BayModelVisitorCenter/TeachersQuest/OurEducationalPrograms.aspx>

Grade Levels: K;1st;2nd;3rd;4th;5th;6th;7th;8th;9th;10th;11th;12th

The Bay Model Visitor Center provides public information and educational programs focusing on the environmental, historical and cultural elements of the San Francisco Bay region. These educational programs focus on concepts such as geography, geology, tide cycle, water cycle, the food chain and map scale.

Pre-scheduled programs can be arranged for groups of 10 or more, and are approximately 1-½ hours in length. This tour will provide valuable knowledge about the history of the hydraulic model of our estuary in San Francisco Bay and Delta and can be tailored to specific interests of your group.

Big Break Regional Shoreline

Oakley

http://www.ebparks.org/parks/big_break

Delta Ramble

https://www.ebparks.org/activities/educators/field_trips/trips/default.htm

Grade Levels: K;1st;2nd;3rd;4th;5th;6th;7th;8th

The wonders of the Delta await in this program that easily accommodates a topic of your choice

Delta Wetlands Walk

https://www.ebparks.org/activities/educators/field_trips/trips/default.htm

Grade Levels: K;1st;2nd;3rd;4th;5th;6th;7th;8th

Marvel at the mystery, history, and importance of the Delta watershed and the amazing plants and animals that make these wetlands their home.

Delta Wetlands Study

https://www.ebparks.org/activities/educators/field_trips/trips/default.htm

Grade Levels: K;1st;2nd;3rd;4th;5th;6th

Students will take their first steps toward becoming Delta Scientists by using scientific method, field research, and instruments to learn the riches of the world around them.

U-Pick Nature Program

https://www.ebparks.org/activities/educators/field_trips/trips/default.htm

Grade Levels: K;1st;2nd;3rd;5th;6th;PK;TK

Let us work with you to customize a program to fit your needs. Examples: animal clues and homes; birds; plants; plankton; owl pellet dissections; nature art and crafts; local history; and more.

5 Senses Hike

https://www.ebparks.org/activities/educators/field_trips/trips/default.htm

Grade Levels: K;1st;2nd;PK

Discover the wonders of nature using your 5 senses!

Delta Variety

https://www.ebparks.org/activities/educators/field_trips/trips/default.htm

Grade Levels: K;1st;2nd;3rd;4th;5th;6th;7th;8th;9th;10th;11th;12th

We'll set up a variety of stations with a variety of opportunities to explore the unending variety of the Delta. Plants, animals, crafts, games, and other activities all guaranteed to make Delta experts out of your large groups.

CA Dept of Fish and Wildlife, Sacramento Region

Sacramento

<http://www.dfg.ca.gov/>

Fishing in the City

<https://www.wildlife.ca.gov/Fishing-in-the-city/SF/School-Programs>

Grade Levels: K;1st;2nd;3rd;4th;5th;6th;7th;8th;9th;10th;11th;12th

Available to assist local communities to create ongoing and sustainable fishing opportunities within their community. Most programs include: school-based watershed and fishing education, school-fishing events, community-fishing events, rod-lending libraries, and habitat improvement projects. The ultimate goal is to create repeatable fishing experiences, improve the quality of life for residents of your community and create stewards of our waterways.

Cache Creek Conservancy

Woodland

<http://www.cachecreek.org>

Nature Trails

<https://sites.google.com/site/cccpactice2/environmental-education>

Grade Levels: K;1st;2nd;3rd;4th;5th;6th;7th;8th;9th;10th;11th;12th

See various waterfowl, wetland habitats, sycamore trees, and an original wagon trail, which carried early settlers to this part of the region. Binoculars, maps and other teaching aids are available upon request. Teachers can call and tailor the field trip to their classroom curriculum. Ask about their bus fund to help defray travel costs

California Academy of Sciences
San Francisco
<http://www.calacademy.org>

Planetarium: Sun, Moon, and Stars (Grades K-2)

<http://www.calacademy.org/educators/field-trips>

Grade Levels: K;1st;2nd

A special presentation for younger viewers. The show focuses on the difference between day and night, the motion of the sun and moon, and the patterns of stars in the night sky.

California Coastal Commission
San Francisco

<http://www.coastforyou.org>

Adopt-a-Beach Program

<http://www.coastal.ca.gov/publiced/aab/aab1.html>

Grade Levels: K;1st;2nd;3rd;4th;5th;6th;7th;8th;9th;10th;11th;12th

In order to "adopt" a local beach, volunteers agree to clean the beach at least three times a year, although school groups can fulfill their obligation with a single cleanup. Groups are encouraged to re-adopt at the end of the year.

Chabot Space and Science Center
Oakland

<http://www.chabotspace.org>

Destination Universe

<http://www.chabotspace.org/forms/school-field-trips.htm>

Grade Levels: K;1st;2nd;3rd;4th;5th;6th;7th;8th;9th;10th;11th;12th

Take a journey from our Sun to the farthest reaches of the cosmos! Along the way, you'll see where stars are born, how they die, meet nebulae of all kinds, and travel to distant galaxies. Experience the Origins Theater; crawl into a black hole; see what happens when galaxies collide; and view stunning space images!

One Giant Leap: A Moon Odyssey

<http://www.chabotspace.org/forms/school-field-trips.htm>

Grade Levels: K;1st;2nd;3rd;4th;5th;6th;7th;8th;9th;10th;11th;12th

Take a simulated Moon-walk, try on a space helmet, climb into a Mercury capsule, and land a lunar module! The exhibit explores legends and science fiction about the Moon; the Space Race and the Moon landings; and the Earth-Moon system. Learn what the Moon is made of, how it affects the Earth, what causes Moon phases, gravity on the Moon, and more. You can even take a look at an ancient piece of the Moon up close! The exhibit includes space artifacts and replicas, from Sputnik and Mercury to Gemini and Apollo.

Wacky Weather

<http://www.chabotspace.org/forms/school-field-trips.htm>

Grade Levels: K;1st;2nd;3rd

The water cycle, seasons, and tools we use to learn about different weather conditions will provide experiences that will allow them to begin understanding this fascinating and ever changing topic. Students will have opportunities to make weather tools, sing a song about the weather cycle, and be introduced to the reasons for the seasons as they observe and participate in a variety of activities. Since the weather is seasonal, the class will evolve to focus on the season in progress to allow students to connect the selected activities to the current weather conditions

Our Amazing Moom

<http://www.chabotspace.org/forms/school-field-trips.htm>

Grade Levels: K;1st;2nd;3rd;4th;5th

When you gaze into the night sky, you can see Earth's only natural satellite, the moon. In this workshop, students will discover what causes our moon's changing phases, model the formation of craters by creating simulated impacts, and blast off on an Apollo mission to learn what the astronauts discovered during their moon landing.

Tales of the Mayan Skies Exhibit

<http://www.chabotspace.org/forms/school-field-trips.htm>

Grade Levels: K;1st;2nd;3rd;4th;5th;6th;7th;8th;9th;10th;11th;12th

Chabot's Tales of the Maya Skies planetarium show features the scientific achievements and cosmology of the Maya. The companion exhibit includes ten graphic panels and two interactive exhibits that supplement the planetarium show and engage Chabot's primarily family audience. The exhibit presents the ancient Maya civilization, Maya cosmology, Maya math, Maya language and writing, the Maya calendar, and the significance of 2012. The exhibit will be displayed at Chabot for approximately one year; all content is bilingual in English and Spanish.

Children's Discovery Museum of San Jose

San Jose

<http://www.cdm.org>

Seld Guided Field Trips

<http://www.cdm.org>

Grade Levels: K;1st;2nd;3rd;4th;5th;6th;7th;8th;PK;TK

Enjoy the hands-on exhibits including: Art Gallery, Art Loft, Bill's Backyard, Bubbles. Mammoth Discovery, Rainbow Market, Secrets of Circles, Streets, Water Ways, Wonder Cabinet, and the changing exhibit

China Camp

San Rafael

http://www.parks.ca.gov/default.asp?page_id=466

Self Guided Tour

http://www.parks.ca.gov/default.asp?page_id=466

Grade Levels: K;1st;2nd;3rd;4th;5th;6th;7th;8th;9th;10th;11th;12th

China Camp's Turtleback Hill offers a self-guided opportunity for teachers. The hill is oak-grass land and surrounded by a salt marsh. Placards are set up that describe the environment, tree species and creatures that live there.

Coyote Hills Regional Park

Fremont

<http://www.ebparks.org>

Coyote Hill's Visitor Center

https://www.ebparks.org/activities/educators/field_trips/trips/default.htm

Grade Levels: K;1st;2nd;3rd;4th;5th;6th;7th;8th;9th;10th;11th;12th

The center includes a small store and information desk, as well as exhibits on the birds, wildlife, and wetlands of the park. A separate room is dedicated to the Ohlone Indians and serves as the media center where slides, films, and video tapes can be shown. In addition, you can arrange to have a staff member give a 15 min. talk w/ a live snake or turtle.

Station Day

https://www.ebparks.org/activities/educators/field_trips/trips/default.htm

Grade Levels: K;1st;2nd;3rd;4th;5th;6th;7th;8th;9th;10th;11th;12th;TK

Your students will explore the park's resources through a variety of stations, which can highlight either the cultural or ecological significance of Coyote Hills – you decide!

Habitat Heroes Discovery Hike

https://www.ebparks.org/activities/educators/field_trips/trips/default.htm

Grade Levels: K;1st;2nd;3rd;4th;5th;6th;7th;8th;9th;10th;11th;12th;TK

Meet animal ambassadors, explore artifacts, and get outside in this adaptable, exploration-heavy, and sensory-engaging program. Choose a natural or cultural history focus.

Water Connects Us All

https://www.ebparks.org/activities/educators/field_trips/trips/default.htm

Grade Levels: K;1st;2nd

Through cultural artifacts, station activities, and outdoor exploration, discover how Ohlones use water, past and present. Discuss your own use and conservation. Aligned to state standards/NGSS.

Crab Cove Marine Reserve

Alameda

http://www.ebparks.org/parks/vc/crab_cove

Cove Days (Fall and Spring)

https://www.ebparks.org/activities/educators/field_trips/trips/default.htm

Grade Levels: K;1st;2nd;3rd;4th;5th;6th;7th;8th

Visit activity stations with your classes: activities include a “dive” in the Old Wharf Classroom, guided exploration, nature games on the lawn, a visit to our exhibit area, and more! This 4-hour program includes a lunch break and accommodates up to 120 students/day.

Oyster Bay nature walk

https://www.ebparks.org/activities/educators/field_trips/trips/default.htm

Grade Levels: K;1st;2nd;3rd;4th;5th;6th;7th;8th;9th;10th;11th;12th

Crab Cove naturalists will guide you in a walk around Oyster Bay

Lake Chabot Regional Park Hike

https://www.ebparks.org/activities/educators/field_trips/trips/default.htm

Grade Levels: K;1st;2nd;3rd;4th;5th;6th;7th;8th;9th;10th;11th;12th

Take a walking history tour of the Lake and learn about the Chinese laborers, turn-of-the-century hydraulic technology, and many other aspects of Lake Chabot. Groups with over 15 students should prepare to lead a one hour activity while each group of 15 is with the naturalist. They can assist with ideas.

Martin Luther King Regional Shoreline

https://www.ebparks.org/activities/educators/field_trips/trips/default.htm

Grade Levels: K;1st;2nd;3rd;4th;5th;6th;7th;8th;9th;10th;11th;12th

Your guided walk of the salt marsh and estuary will include an investigation of the plant and animal life as well as the importance of this diminishing ecosystem to the health of the Bay. Groups with over 15 students should prepare to lead a one hour activity while each group of 15 is with the naturalist. They can assist with ideas.

Visitor Center Tour

https://www.ebparks.org/activities/educators/field_trips/trips/default.htm

Grade Levels: K;1st;2nd;3rd;4th;5th;6th;7th;8th;9th;10th;11th;12th

Guided tour of exhibits including shells, whales, rays and birds of ocean and bay.

CuriOdyssey

San Mateo

<http://www.curiodyssey.org/>

Self-Guided Tours

<https://curiodyssey.org/schools-groups/>

Grade Levels: K;1st;2nd;3rd;4th;5th;6th;7th;8th

Self-guided Tour of the museum.

Ice Investigators

<https://curiodyssey.org/schools-groups/>

Grade Levels: K;1st;2nd;3rd

Learn about solids, liquids, and the properties of water in this "cool" program. Students will investigate frozen water balloons, make salt craters, examine bubbles and tunnels in ice, trace water flow, and view light through ice. Join us for an illuminating transformation of ice into water.

Don Edwards San Francisco Bay National Wildlife Refuge

Newark

http://www.fws.gov/refuge/Don_Edwards_San_Francisco_Bay/Environmental_Education.

Living Wetlands Field Trip- Alviso

http://www.fws.gov/refuge/Don_Edwards_San_Francisco_Bay/Environmental_Education.html

Grade Levels: K;1st;2nd;3rd;4th;5th;6th;7th;8th

Designed for grades K-8 and is offered at both the Environmental Education Center in Alviso and the Newark Slough Learning Center in Fremont. Through a variety of activities, students explore and compare the diverse habitats found at the Refuge. Wetland Round-up activities are designed to help participants recognize the importance of preserving these resources and the ways that students can be and are involved in protection. Each field trip includes a staff-led opening and closing. 408-262-5513

SF Bay National Wildlife Refuge - Fremont

http://www.fws.gov/refuge/Don_Edwards_San_Francisco_Bay/Environmental_Education.html

Grade Levels: K;1st;2nd;3rd;4th;5th;6th;7th;8th;9th;10th;11th;12th

The Newark Slough Learning Center is located at 2 Marshlands Rd, Fremont, CA. It is just south of the Dumbarton Bridge Toll Plaza near the Visitor Center and miles of salt marsh, tidal sloughs, mudflat and salt ponds. The Pumphouse, our environmental education "outpost," along with an amphitheater and Environmental Education Pavilion, serve as the hub of an extensive system of bridges, boardwalks and trails that make it easy to see and explore the San Francisco Bay habitats. All field trip activities are correlated to appropriate State of California Education Standards.

EcoCenter at Heron's Head Park

San Francisco

<http://www.ecocenterhhp.org/>

Turning the Tide

<https://bayecotarium.org/teachers/k-12-programs/>

Grade Levels: 1st;2nd;3rd

Water, the basis of life as we know it, is an incredibly dynamic and important substance. Explore the phases of water, sea level rise, and how we can help maintain water's balance on planet Earth.

Environmental Discovery Center of Sonoma County

Santa Rosa

<http://www.sonoma-county.org/parks/edc.htm>

Only Rain Down the Drain

<http://www.sonoma-county.org/parks/edc.htm>

Grade Levels: 1st;2nd;3rd;4th;5th;6th

Introduction to watersheds. Activities reinforce grade-specific science standards that include the water cycle, seasons, weathering, erosion deposition, the Sonoma County watershed, non-point source pollution, and the effects of water pollution.

Habitat & Home

<http://www.sonoma-county.org/parks/edc.htm>

Grade Levels: 1st;2nd;3rd

Students will learn about ecosystem diversity, endangered species and the importance of wetland management through interactive displays and activities. Emphasis of activities reinforce grade-specific science standards that include habitats, animal life cycles, and adaptations for survival. Held at Spring Lake Regional Park in Santa Rosa.

Exploratorium

San Francisco

<http://www.exploratorium.edu>

Fisher Bay Observatory Gallery 6: Observing Landscapes

<https://www.exploratorium.edu/visit/galleries>

Grade Levels: K;1st;2nd;3rd;4th;5th;6th;7th;8th;9th;10th;11th;12th

Explore the local environment. Natural and human forces interact to create the dynamic landscape surrounding us. Learn to uncover the stories embedded in a place by directly observing the geography, history, and ecology of the San Francisco Bay region.

Outdoor Gallery: Open your senses to this place by the Bay.

<https://www.exploratorium.edu/visit/galleries>

Grade Levels: K;1st;2nd;3rd;4th;5th;6th;7th;8th;9th;10th;11th;12th

Investigate forces shaping the City, Bay, and region. Watch shifting winds and tides, reveal hidden life, shake a bridge, observe human behavior, and find new ways to notice the places we inhabit.

Farallones Marine Sanctuary Association

San Francisco

<http://www.farallones.org>

Visitor Center Fieldtrip

<http://farallones.org/schoolprograms/>

Grade Levels: K;1st;2nd;3rd;4th;5th;6th;7th;8th;9th;10th;11th;12th

The Sanctuary Visitor Center offers a variety of grade specific, lively, hands-on programs for students grades K-6. Programs are two hours long and take place in the Sanctuary classroom, Visitor Center, and on beautiful Chrissy Field Beach. Custom programs available.

Hayward Shoreline Interpretive Center

Hayward

<http://www.haywardrec.org/150/Hayward-Shoreline-Interpretive-Center>

Salty Stories

<http://www.haywardrec.org/155/School-Programs>

Grade Levels: K;1st

In this discovery program, the focus is on exploration and awareness of saltmarsh homes, animals, plants, and cycles, using the body and its senses. Students will:

- * explore saltmarsh waterways;
- * discover land invertebrates;
- * observe life in the marsh;
- * role-play animal behavior.

School programs begin with a brief introduction on wetlands and the salt marsh habitat followed by a one, two or three hours hike. We can work with you to design a program that fits your classroom curriculum. 1 hour

Hiller Aviation Museum San Carlos

<http://www.hiller.org>

Star Watchers - Field Trip

<https://www.hiller.org/learn-and-discover/school-field-trips/>

Grade Levels: K;1st;2nd;3rd;4th;5th;6th;7th;8th

Take an adventure into the night-time sky! Students enter a giant inflatable Starlab dome to explore by day the stars, planets and constellations that will be visible in the sky that night and discover the means by which early navigators found directions and plotted their courses by the stars.

Eye on the Sky - Field Trip

<https://www.hiller.org/learn-and-discover/school-field-trips/>

Grade Levels: K;1st;2nd

Investigate the sky by day and night! Discover the water cycle's role in cloud formation and identify the cloud types that impact aviation while constructing cloud cards. Then, crawl beneath the expansive dome of the Starlab planetarium to investigate stars, planets and constellations found in the nighttime sky.

Junior Center of Art and Science Oakland

<http://www.juniorcenter.org/>

Rocket Science

<http://juniorcenter.org/programs/field-trips/>

Grade Levels: K;1st;2nd;3rd;4th;5th;6th

Experiments with air pressure allow students to hypothesize and compare results. Students work in teams to build and launch water rockets which can fly as high as 70 feet. 20 students maximum for grades K-2; 32 student maximum for grades 3-8. Can also be presented in classroom.

Lawrence Hall of Science Berkeley

lawrencehallofscience.org

Patterns: Earth Sun and Moon- Planetarium Workshop

https://www.lawrencehallofscience.org/visit/field_trips

Grade Levels: 1st;2nd

The Sun comes up every day, but what makes one day different from the next? What about the Moon and the stars? We can see them every night, but are they always the same? In this Planetarium program, students will answer these questions like scientists as they make observations and predictions to consider explanations for the patterns in our sky. Our Planetarium helps students investigate these challenging questions.

Ingenuity Lab: Water Engineering

https://www.lawrencehallofscience.org/visit/field_trips

Grade Levels: 1st;2nd

Students engage in problem solving by exploring water engineering as they design and build their own water pathway and discover how water moves and interacts with different materials. Then using what they learned they design a cityscape to retain stormwater and prevent flooding.

*Offered at the Hall in February

Self-Guided Visit

https://www.lawrencehallofscience.org/visit/field_trips

Grade Levels: K;1st;2nd;3rd;4th;5th;6th;7th;8th;9th;10th;11th;12th

Take your students to the Lawrence Hall of Science to enjoy the exhibits.

Lick Observatory Santa Cruz

<http://www.ucolick.org>

Dome Tour

<https://www.ucolick.org/main/visit/info.html>

Grade Levels: K;1st;2nd;3rd;4th;5th;6th;7th;8th;9th;10th;11th;12th

A staff person is available to give a 15 minute talk in the 36-inch telescope dome. The teacher leads class through the gift shop. This is a general tour-- students will not get to look through the telescope. It is their decision to maximize the effectiveness of these tours by limiting them to college astronomy classes, science teachers workshops, and professional societies.

Marina Education Programs - City of Berkeley Berkeley

<http://www.ci.berkeley.ca.us/ContentDisplay.aspx?id=11922>

Low Tide Programs

<http://www.ci.berkeley.ca.us/ContentDisplay.aspx?id=11922>

Grade Levels: K;1st;2nd;3rd;4th;5th;6th;7th;8th;9th;10th;11th;12th

When the children arrive for their three hour Low Tide program, they meet in the Nature Center for a 40 minute interactive multimedia presentation, to review and learn about the marine inhabitants along the Berkeley waterfront. They observe the aquariums, the touch table and then depending on the tide, they explore the rocky shore, return for a break, and then explore the dock. Cost for three hours and packet materials is \$194. 9:30a.m.-12:30p.m. programs. Each program requires a mandatory teacher's IN-SERVICE training workshop during which teachers preview the site, update staff for their current science program, and naturalists add to it with a packet of informational lesson plans for pre- and post-trip lessons geared to their class' grade level. These lessons were written by our staff, and correlate with the California State Science Framework and include 47 large animal identification cards and pictures.

Math Science Nucleus Fremont

<http://www.ms-nucleus.org>

Tule Ponds - Plant and Animal Environments

http://www.ms-nucleus.org/classes/fieldtyson.htm#NEW_CLASSES_NOW_OFFERED_

Grade Levels: 1st

1. Students will look at an aquatic plant (tule or cattail).
2. Student will look at a land plant (cottonwood, willow, oak).
3. Students will look at environments where birds, amphibians, reptiles, and other organisms live at Tule Ponds at Tyson Lagoon.
4. Students will look at living requirements at Tule Ponds at Tyson Lagoon.

General Tule Ponds Tour.

<http://www.msucleus.org>

Grade Levels: K;1st;2nd;3rd;4th;5th;6th;7th;8th;9th;10th;11th;12th

This two hour tour is perfect for students who have never been to a wetland and want to learn more. Each tour includes: a reading of "Wetland in the City" the magical story of how Tule Ponds came to be *a tour of the Tule house, *a walk on the Hayward Fault

a comparison of constructed and natural wetlands, *making plant bookmarks, looking at organisms in the water under a microscope *

Stivers Lagoon Field Trip

<http://www.msucleus.org/watersheds/stivers/stivergen.html>

Grade Levels: K;1st;2nd;3rd;4th;5th;6th

Teachers may take classes to Stivers Lagoon for field trips. Muskrat Creek flows through Stivers Lagoon, and serves as a wilderness area for nature education.

Monterey Bay Aquarium

Monterey

<http://www.mbayaq.org>

Ocean Explorers - Feathers or Fins

http://www.montereybayaquarium.org/lc/teachers_place/fieldtrip_choice.aspx#oe_seastars

Grade Levels: K;1st;2nd

The Monterey Bay Aquarium exhibits a variety of animal life. In this program, students will explore the adaptations of two animal groups exhibited in the Aquarium: fishes and birds. Join us in the auditorium as we compare and contrast the unique characteristics that make a bird a bird to those that make a fish a fish. During this 25-minute introduction, students will also hear insider's stories about our most popular and lovable feathered friends, the penguins! Together, we'll discuss what people can do to keep both our feathered and finned ocean friends healthy and thriving. From there, students will explore the Aquarium with their chaperones, making first-hand observations of animals and taking on the role of scientist for the day using an Aquarium-provided Exploration Booklet filled with activities designed to promote interesting conversations and focused observation at exhibits.

Self-Guided Tour

http://www.montereybayaquarium.org/lc/teachers_place/fieldtrip_choice.aspx#selfguided

Grade Levels: K;1st;2nd;3rd;4th;5th;6th;7th;8th;9th;10th;11th;12th

You determine the focus and set the pace. The average visit time is two to three hours, but you are welcome to stay as long as you like and investigate all the habitats found in the Aquarium. Weekend and summer reservations are available. Teacher guides provided.

Discovery Lab: Rocky Shore Explorations

http://www.montereybayaquarium.org/lc/teachers_place/fieldtrip_choice.aspx#disc_explorations

Grade Levels: K;1st;2nd

Let's get ready to rock! Come on a virtual exploration of the crashing surf and ever changing tides while learning how sea stars, hermit crabs, and other intertidal animals eat, move, and protect themselves to survive in their rocky shore habitat.

Monterey Whale Watching Cruises

Monterey

<http://www.montereybaywhalecruise.com>

Gray Whales Boat Trip

<http://www.montereybaywhalecruise.com/SchoolFieldTrips.htm>

Grade Levels: K;1st;2nd;3rd;4th;5th;6th;7th;8th;9th;10th;11th;12th

The entire Gray Whale population migrates past the Monterey coastline every winter. These whales have one of the longest migrations known, traveling over 12,000 miles roundtrip from their summer feeding grounds in the Bering Sea to their winter breeding grounds in Baja California. Gray Whales are easily observed as they travel nearshore on migration.

Sea Lions, Seals, Sea Otters, Dolphins Boat Trip

<http://www.montereybaywhalecruise.com/SchoolFieldTrips.htm>

Grade Levels: K;1st;2nd;3rd;4th;5th;6th;7th;8th;9th;10th;11th;12th

During our trip, we will also look for dolphins. Several species are frequently sighted: Long-Beaked Common Dolphins, Pacific White-Sided Dolphins, Risso's Dolphins, Northern Right Whale Dolphins, and Dall's Porpoise. Occasionally we see Killer Whales, and if they are in the area we always make an effort to see them! We see California Sea Lions, Harbor Seals, and Sea Otters on all trips.

Natural Bridges State Park

Santa Cruz

<http://www.santacruzstateparks.org/parks/natbridges>

Tidepool Tours

<http://www.thatsmypark.org/teachers/?searchvalue=7>

Grade Levels: 1st;2nd;3rd;4th;5th;6th;7th;8th;9th;10th;11th;12th

From approximately March 1st until July 30th each year, tidepool tours are available for 1st grade and up. This program begins with a 30 minute Visitor Center tidepool preparation talk with activities followed by a guided walk and rocky intertidal exploration. The entire program lasts approximately one and a half hours, and accommodates one class at a time. To safely view the pools, tides must be less than 2 feet, so refer to a tide chart when looking at dates. The ocean waits for no one!

NatureBridge at Golden Gate

Sausalito

<http://www.naturebridge.org/golden-gate>

Field Science Program

<http://www.naturebridge.org/school-group-field-science-golden-gate>

Grade Levels: K;1st;2nd;3rd;4th;5th;6th;7th;8th;9th;10th;11th;12th

Programs are carefully designed with the classroom teacher to compliment in-class curricula and lead students into areas of study not available in the everyday school environment. Core themes: a sense of place, interconnections and stewardship. Staff will work with teachers to develop a program that supports classroom objectives. Pack a lunch and snacks. Choose from areas of study including:

- Marine ecology
- Terrestrial plants & animals
- Watershed studies
- Earth & physical sciences
- Climate change

Point Reyes National Seashore

Point Reyes Station

<http://www.nps.gov/pore/forteachers/index.htm>

Bear Valley Visitor Center

<http://www.nps.gov/pore/planyourvisit/visitorcenters.htm>

Grade Levels: 1st;2nd;3rd;4th;5th;6th;7th;8th;9th;10th;11th;12th

The park's primary Visitor Center provides an orientation of the park's roads, trails, and human and natural history. The Bear Valley Visitor Center was designed to blend in with the historically significant ranching culture of this area and is located in the heart of the Olema Valley. The interior exhibit space provides a glimpse of the diverse ecosystems and cultural heritage of the park and includes a seismograph, touch table, auditorium, and book sales area. Audio-visual programs, shown in the auditorium, are available upon request. Natural history books, cards and posters are for sale in the bookstore. Reservations and permits for backcountry camping, as well as beach fire permits, may be obtained here. Allow at least 45 minutes to view exhibits and to watch an audio-visual program. The Bear Valley Visitor Center is located 0.8 kilometer (0.5 mile) west of Olema, CA along Bear Valley Road.

Point Reyes Lighthouse Visitor Center and Historic Lighthouse

<http://www.nps.gov/pore/planyourvisit/visitorcenters.htm>

Grade Levels: 1st;2nd;3rd;4th;5th;6th;7th;8th;9th;10th;11th;12th

The Lighthouse Visitor Center is located 45 minutes west of Bear Valley on the Point Reyes Headlands, at the end of Sir Francis Drake Blvd. There is a 650 meter (0.4 mile) walk (mostly uphill) from the parking lot to the Lighthouse Visitor Center. Allow at least 2 hours round trip for travel to and from the Lighthouse from the Bear Valley area and another hour to tour the Visitor Center and Lighthouse. The Point Reyes Lighthouse itself is another 150 meters (0.1 miles) beyond the Visitor Center at the base of some 300 steps—the equivalent of 30 stories. The lens room, which houses the original clockworks and first-order Fresnel lens that were manufactured in 1867 and installed in 1870, is open from 2:30 p.m. to 4 p.m. Thursdays through Mondays as staffing and weather conditions permit. The lower chamber of the historic lighthouse has exhibit panels on the history of the light and the keepers. The equipment building next to the lighthouse exhibits the two 1947 super typhon foghorns, the air compressors, and a backup power generator that were used at Point Reyes

Kenneth C. Patrick Visitor Center

<http://www.nps.gov/pore/planyourvisit/visitorcenters.htm>

Grade Levels: 1st;2nd;3rd;4th;5th;6th;7th;8th;9th;10th;11th;12th

Located at beautiful Drakes Beach, the Kenneth C. Patrick Visitor Center contains exhibits that focus on 16th century maritime exploration, marine fossils and marine environments. A minke whale skeleton is suspended from the ceiling. Natural history books, cards and posters are for sale in the bookstore. Allow 20–30 minutes to view exhibits.

The Bear Valley Visitor Center is located 0.8 kilometer (0.5 mile) west of Olema, CA along Bear Valley Road.

San Francisco Maritime National Park

San Francisco

<http://www.maritime.org>

USS Pampanito Daytime Tours

<https://maritime.org/education/edupampanito/educational-tours/>

Grade Levels: K;1st;2nd;3rd;4th;5th;6th;7th;8th;9th;10th;11th;12th

Here's your opportunity to get a first-hand look at one of the once-secret naval vessels which helped to win World War II. The USS Pampanito (SS-383), a World War II fleet submarine, provides an excellent field trip experience for classes exploring the history of World War II or for other educational groups seeking an out-of-the-ordinary experience. As one of the last surviving submarines from America's World War II fleet, the USS Pampanito provides a unique opportunity to bring alive the history most students can only read about. (More about the Pampanito.)

Using our on-board self-guided audio tour system, your group can walk the decks and tour the interior of an actual submarine while learning about the important role played by the "Silent Service." Your tour will describe the difficult conditions under which the crews of these vessels toiled while you learn about the basic principles of submarine operation.

Seymour Marine Discovery Center

Santa Cruz

<http://www2.ucsc.edu/seymourcenter/>

Blue Whale Skeleton

<https://seymourcenter.ucsc.edu/exhibits/>

Grade Levels: K;1st;2nd;3rd;4th;5th;6th;7th;8th;9th;10th;11th;12th

Arching 87 feet in length and rising 18 feet above the ground, the blue whale skeleton at the Seymour Center is a sight to behold. The skeleton, dubbed "Ms. Blue" by center volunteers, has a colorful history at Long Marine Lab. She was first assembled in 1985 and has been a centerpiece of the lab's education program ever since. Prior to that, Ms. Blue's life and death are an enigma. Visit the blue whale skeleton as part of a guided or self-guided tour of the Seymour Marine Discovery Center.

Self-Guided Exhibit Exploration

<https://seymourcenter.ucsc.edu/learn/students-teachers/ways-to-visit/resources-for-your-field-trip/>

Grade Levels: K;1st;2nd;3rd;4th;5th;6th;7th;8th;9th;10th;11th;12th

We supply logistical information so you can create your own activities, or select from specially designed activities available on our web site. Students will learn how marine scientists think and work to understand life in the ocean through the Seymour Center's invertebrate and shark touch pools, exhibits, aquaria, life-size elephant seal sculptures, gray whale skeleton, and one of the world's largest blue whale skeletons. Knowledgeable docents illuminate how researchers work in the lab and in the field. Live animals inspire your students to pose questions as scientists do. Self-guided groups are welcome in the Seymour Center exhibit hall and immediate surroundings, but are not permitted access to the marine mammal research area or on tours. Lunch at our picnic tables, visit the Ocean Discovery Shop, and stay as long as you like.

Guided Tours of the Seymour Marine Discovery Center

<http://www2.ucsc.edu/seymourcenter/>

Grade Levels: K;1st;2nd;3rd;4th;5th;6th;7th;8th;9th;10th;11th;12th

Reserve your own docent to guide your students through the amazing sights and sounds of a working marine lab. Discover where, what, and how ocean scientists learn about marine mammals and their incredible abilities. Your students will peer at some special marine mammals residing at the lab to help scientists investigate how their well-adapted bodies function. Learn how ongoing science at Long Marine Lab can help conservation efforts for animals in the wild. Before or after your guided tour, students can explore how scientists work through interactive exhibits and aquaria

Sunol-Ohlone Regional Wilderness

Sunol

<http://www.ebparks.org>

U-Pick Nature Program: In Park or Class

https://www.ebparks.org/activities/educators/field_trips/trips/default.htm

Grade Levels: K;1st;2nd;3rd;4th;5th;6th;7th;8th;9th;10th;11th;12th

We will customize a program to fit your needs. Pollination, weather, animal adaptations, and more! Can't make it to the park? We'll come to you!

Astronomy: Third Rock from the Sun

https://www.ebparks.org/activities/educators/field_trips/trips/default.htm

Grade Levels: K;1st;2nd;3rd;4th;5th;6th;7th;8th;9th;10th;11th;12th

This program includes a hike to explore the interaction of sunlight, shade and the natural world. Safe, hands-on activities investigate the sun, solar system, changing views of the universe, and the night sky. Night hikes and moon-watching programs may also be arranged.

The Gardens at Heather Farms

Walnut Creek

<http://www.gardenshf.org/>

Nature Detectives

<http://www.gardenshf.org/youth-programs.html#naturedetectives>

Grade Levels: K;1st;2nd;3rd

We'll awaken our senses and sharpen our observation skills to become super sleuths. As we explore the pond and follow clues like tracks and scat, we'll learn about the plants and animals that share our urban habitat. 1 hour

The Pegasus Project

Albany

<http://www.pegasusvoyages.org/index.html>

Pegasus Project Sailing Voyage

<http://www.pegasusvoyages.org/project.html>

Grade Levels: K;1st;2nd;3rd;4th;5th;6th;7th;8th;9th;10th;11th;12th

The East Bay is full of wildlife above, on, and below the water. We will show you current boundaries: floating ecosystems that move around the bay with the currents. We will show you birds, marine mammals, and whatever else pops up. We will also help you visualize the Bay before humans rebuilt it. Pegasus Project's mission is to enable youth to become productive members of a sustainable society through positive outdoor environmental education and by reinforcing life skills. The objectives of Pegasus Project are:

- * To conduct Lifeskills Sails aboard Pegasus for youth including youth at risk. Through the encouragement of a mentoring relationship between adult and youth crew members, Lifeskills sails build confidence, focus on teamwork, and empower youth to become active members of a sustainable community.
- * To provide youth participants (and adult crew) with a basic environmental understanding and appreciation of the San Francisco Bay, especially the marine environment, in the course of learning to operate the Pegasus.
- * To provide a multi-year track for underprivileged youth that will enable them to experience their backyard bay through on-the-water activities.
- * To work with partners to develop scholarship options, integrated and multi-level programs, special-needs training and voyages, and in-depth and multi-year programs.

The Tech Interactive San Jose

<http://www.thetech.org>

IMAX Film: Hidden Universe

<http://www.thetech.org>

Grade Levels: K;1st;2nd;3rd;4th;5th;6th;7th;8th;9th;10th;11th;12th

available to groups of 50 or more at 10 a.m. Hidden Universe

Take an extraordinary journey deep into space in the cinematic medium that transports audiences like no other. Mesmerizing, high-resolution images from space allow moviegoers to explore the earliest galaxies and travel the terrain of Mars; witness images of distant celestial structures including stunning new views of the Sun; and peer deep inside the universe's most mysterious nebulae where stars are born. Seen for the first time on the giant IMAX screen, these dramatic new images offer fresh insight into the origins and evolution of the universe. Narrated by Miranda Richardson.

IMAX Film - Under the Sea

<http://www.thetech.org>

Grade Levels: K;1st;2nd;3rd;4th;5th;6th;7th;8th;9th;10th;11th;12th

available to groups of 50 or more at 10 a.m. Actor Jim Carrey is the narrator/tour guide for a stunning journey into the world's most beautiful and remote coral reefs. Be transported to some of the most exotic and isolated undersea locations on Earth, including Southern Australia, New Guinea and others in the Indo-Pacific region, and experience face-to-face encounters with some of the most mysterious and stunning creatures of the sea. It offers a uniquely inspirational and entertaining way to explore the impact that global climate change has had on ocean wilderness.

IMAX Film: Hubble

<http://www.thetech.org>

Grade Levels: K;1st;2nd;3rd;4th;5th;6th;7th;8th;9th;10th;11th;12th

Available to groups of 50 or more at 10 a.m. Experience the gripping story – full of hope, crushing disappointment, dazzling ingenuity, bravery, and triumph – in Hubble. Journey through distant galaxies to explore the grandeur and mysteries of our celestial surroundings, and accompany space-walking astronauts as they attempt some of the most difficult and important tasks in the history of NASA.

IMAX film - Forces of Nature

<http://www.thetech.org>

Grade Levels: K;1st;2nd;3rd;4th;5th;6th;7th;8th;9th;10th;11th;12th

There are nearly 500,000 earthquakes, over 1,000 tornadoes, and about 50 volcanoes erupting around the world each year. The science stories in Forces of Nature are augmented with computer graphics sequences designed to illustrate the inner workings of these forces.

Forces of Nature lets you experience what it's like when the ground shakes, mountains explode and the sky turns black and violent. Follow scientists on their groundbreaking quests to understand how these natural disasters are triggered. Learn what is being done to predict and prepare for these events — and minimize their destructive forces.

Tilden Nature Area-Tilden Regional Park
Berkeley
<http://www.ebparks.org>

Pond Study (March-Oct.)

https://www.ebparks.org/activities/educators/field_trips/trips/default.htm

Grade Levels: K;1st;2nd;3rd;4th;5th;6th

Explore the wet and wonderful world of the Nature Area's ponds: insects, amphibians and more (perhaps even a garter snake!).

Tailored Naturalist Program: Habitats

https://www.ebparks.org/activities/educators/field_trips/trips/default.htm

Grade Levels: K;1st;2nd;3rd;4th;5th;6th;7th;8th;9th;10th;11th;12th

the Tilden Naturalists can adapt their programs to meet the specific needs of your science unit. Sign up for a fieldtrip via the lottery system and give them a call once you are selected.

Wildcare
San Rafael

<http://www.wildcarebayarea.org>

Miwok Meadows, China Camp

<https://www.discoverwildcare.org/programs/nature-hikes/>

Grade Levels: K;1st;2nd;3rd;4th;5th;6th

Students explore the fascinating and diverse habitats of this historic site to discover the life cycles, adaptations and ecology of wetlands, oak woodlands and grasslands.

Spring Lake, Santa Rosa

<https://www.discoverwildcare.org/programs/nature-hikes/>

Grade Levels: K;1st;2nd;3rd;4th;5th;6th

This is a multi-sensory introduction to three habitats: oak woodlands, fresh-water marsh and lake shore. From Acorn Woodpeckers to Native American uses of native plants, students witness the wild side of Spring Lake Park and uncover some of Nature's best-kept secrets.

Program Type: In-Class Program

American Red Cross
San Francisco

<http://www.bayarea-redcross.org>

Masters of Disaster

<http://redcrossyouth.org/2007/12/10/masters-of-disaster/>

Grade Levels: K;1st;2nd;3rd;4th;5th;6th;7th;8th

The award-winning Masters of Disaster disaster preparedness curriculum teaches children how to prevent, prepare for and respond to disasters and other emergencies. The Masters of Disaster Educator's Kit contains lessons, activities and demonstrations on disaster-related topics that youth-serving organizations can incorporate into daily or thematic programming. The Masters of Disaster curriculum materials meet national educational standards and are specifically tailored for lower elementary (K-2), upper elementary (3-5) and middle school (6-8) classes. A Red Cross instructor can bring this training to your school, or you can download materials online for use in the classroom.

Aquarium of the Bay
San Francisco

<http://www.aquariumofthebay.org/>

BayMobile: Our Future's So Bright

<https://www.aquariumofthebay.org/teachers/k-12-programs/>

Grade Levels: K;1st

Students will observe how humans have affected the balance of natural cycles on Earth, and then explore through play how new innovations, such as solar power and other alternative energy options, give us all the opportunity to return balance to our environment.

Duration: 60 minutes per class

Class size: 15 to 35 students

Number of classes per school visit: 3-4 (please note all classes on a given date must select the same program)

Bay Area Discovery Museum
Sausalito

<http://www.baykidsmuseum.org/>

Try It Truck

<https://bayareadiscoverymuseum.org/educators>

Grade Levels: K;1st;2nd

The Try It Truck is an engineering lab-on-wheels that travels directly to schools, libraries, and community organizations throughout the Bay Area to provide hands-on early engineering experiences to young learners. Try It Truck programming introduces children in grades kindergarten through fifth grade to the engineering design process and high- and low-tech tools while encouraging them to take risks and try new ideas. We offer two types of Try It Truck programs, which vary based on number of workshops and group size.

CA Dept of Fish and Wildlife, Sacramento Region
Sacramento

<http://www.dfg.ca.gov/>

Classroom Aquarium Education Project (CAEP)

<https://www.wildlife.ca.gov/CAEP/R3>

Grade Levels: K;1st;2nd;3rd;4th;5th;6th;7th;8th;9th;10th;11th;12th

The Classroom Aquarium Education Program (CAEP - also known as Trout-in the Classroom and Steelhead in the Classroom) is a community-based program which allows students to experience first hand the delicate balance needed for animals to survive in aquatic ecosystems. Using eggs provided by a hatchery, classes set-up and maintain an aquarium for the purpose of observing the development of fish from the eyed-egg stage until they become young fry. Students engage in course of study which supports the leaning experience across curriculum area. This program is run cooperatively by local schools, fishing clubs and government agencies.

Chabot Space and Science Center
Oakland

<http://www.chabotspace.org>

Wacky Weather

<http://www.chabotspace.org/forms/chabot-to-go.htm>

Grade Levels: K;1st;2nd;3rd

Cloudy with a chance of snow at Chabot? Learn about the three elements that make up our ever changing weather and the tools meteorologist use to record weather. Students engage in hands-on activities at a variety of stations to reinforce their understanding of this fascinating and ever changing topic.

Crab Cove Marine Reserve

Alameda

http://www.ebparks.org/parks/vc/crab_cove

Naturalist in the Classroom (Fall only)

https://www.ebparks.org/activities/educators/field_trips/trips/default.htm

Grade Levels: K; 1st; 2nd; 3rd; 4th; 5th; 6th; 7th; 8th; 9th; 10th; 11th; 12th

If you can't come to Crab Cove, a naturalist can visit you! Crab Cove programs bring the Bay or hill parks wildlife and plants to life; Naturalists can tailor the theme to fit your needs. Available in Alameda, Oakland, San Leandro areas.

East Bay Regional Park District

Oakland

<http://www.ebparks.org>

Mobile Visitor Center

http://www.ebparks.org/activities/educators/Mobile_Education_Outreach

Grade Levels: K; 1st; 2nd; 3rd; 4th; 5th; 6th; 7th; 8th; 9th; 10th; 11th; 12th

Imagine a "closet on wheels," filled with materials for teaching any range of nature-related topics. And it even comes with a professional nature educator! Groups of up to 30 students at a time engage in topics including:

- ~ Watersheds
- ~ Local Mammals
- ~ Reptiles and Amphibians

Farallones Marine Sanctuary Association

San Francisco

<http://www.farallones.org>

Crab Cab

<https://farallones.noaa.gov/education/crabcab.html>

Grade Levels: K; 1st; 2nd; 3rd

What is a crab? How do crabs survive? Where do crabs live? The Crab Cab is a 45-minute At Your School program for K-3rd graders on crab diversity and natural history. The program includes hands-on activities and crab artifacts.

Hiller Aviation Museum

San Carlos

<http://www.hiller.org>

Eye on the Sky - In-Class

<https://www.hiller.org/learn-and-discover/school-field-trips/>

Grade Levels: K; 1st; 2nd

Investigate the changing sky with a hands-on exploration of common meteorological phenomena. Discover the water cycle's role in cloud formation and build models of different clouds in an exploration of aviation weather!

Kids for the Bay

Berkeley

<http://www.kidsforthebay.org>

School Wide Creek Education Program

<http://www.kidsforthebay.org/site/programs/school-wide-creek-education-program.shtml>

Grade Levels: K;1st;2nd;3rd;4th;5th;6th;7th;8th;9th;10th;11th;12th

KftB works with the school community to adopt, clean up, and restore a local creek habitat. The creek becomes an outdoor classroom for hands-on learning and environmental stewardship. Students learn about their connection to their local creek and discover reasons to care for their creek watershed. School-Wide Programs are a partnership between KIDS for the BAY and the entire elementary school, including the principal, teachers, students, and students' families. These long-term, in-depth programs engage each grade level in environmental science and action while providing professional development in science education for each classroom teacher. KftB also provides curriculum, training, and an equipment resource center for the school to continue the program in future years. The lessons and activities for each grade level are directly tied to many California State Content Standards in science, language arts, social studies, and math. After a three year period of support for the school, the principal, teachers, students, parents and community partners continue the program independently as a completely integrated part of their school curriculum and culture.

Bay Estuary Classroom Workshops

<http://kidsforthebay.org/programs/bay-estuary-classroom-workshops/>

Grade Levels: 1st;2nd;3rd;4th;5th;6th

Bay Estuary Classroom Workshops bring the San Francisco Bay Estuary to life in your classroom! Students will investigate real animals and plants that live in the Bay, create a three-dimensional bay model, and study bay geography. Students will also participate in hands-on science experiments and activities to learn about estuaries, food chains, and bay organisms. Classroom Workshops are three hours of hands-on instruction in your classroom or school science laboratory

School Wide Watershed Action Program

<http://www.kidsforthebay.org/site/programs/school-wide-creek-education-program.shtml>

Grade Levels: K;1st;2nd;3rd;4th;5th;6th;7th;8th;9th;10th;11th;12th

KftB partners with a school for three years to engage the school community in connecting with their local watershed, inspiring the protection and restoration of their watershed, and increasing academic achievement. Students learn about their personal connections with their local creek, San Francisco Bay, and ocean watersheds and the local National Marine Sanctuaries through classroom lessons and field trips. Each class also implements action projects that positively impact the health of their watershed.

Our School-Wide Programs are a partnership between KIDS for the BAY and the entire elementary school, including the principal, teachers, students, and students' families. These long-term, in-depth programs engage each grade level in environmental science and action while providing professional development in science education for each classroom teacher. KftB also provides curriculum, training, and an equipment resource center for the school to continue the program in future years. The lessons and activities for each grade level are directly tied to many California State Content Standards in science, language arts, social studies, and math. After a three year period of support for the school, the principal, teachers, students, parents and community partners continue the program independently as a completely integrated part of their school curriculum and culture.

School Wide Urban Wilderness Classroom Program

<http://www.kidsforthebay.org/site/programs/school-wide-creek-education-program.shtml>

Grade Levels: K;1st;2nd;3rd;4th;5th;6th;7th;8th;9th;10th;11th;12th

KftB works with every teacher and every class of students at a school to design, create, study and maintain the Urban Wilderness Classroom, an outdoor wilderness habitat located on the school campus. Working with KftB, each grade level is responsible for the design of a different habitat of the wilderness. Once the wilderness is developed, KIDS for the BAY leads lessons for each class to study the various habitats of the wilderness and to cultivate and maintain them. School-Wide Programs are a partnership between KIDS for the BAY and the entire elementary school, including the principal, teachers, students, and students' families. These long-term, in-depth programs engage each grade level in environmental science and action while providing professional development in science education for each classroom teacher. KftB also provides curriculum, training, and an equipment resource center for the school to continue the program in future years. The lessons and activities for each grade level are directly tied to many California State Content Standards in science, language arts, social studies, and math. After a three year period of support for the school, the principal, teachers, students, parents and community partners continue the program independently as a completely integrated part of their school curriculum and culture.

Environmental Action Projects

<http://kidsforthebay.org/programs/environmental-action-projects/>

Grade Levels: 1st;2nd;3rd;4th;5th;6th;7th;8th

Environmental Action Projects provide the exciting, empowering opportunity for teachers and students to take action to help solve environmental problems in their communities. Each project includes engaging hands-on activities that focus on a particular environmental problem and the solutions to that problem. Each Environmental Action Project is three hours of instruction and action.

Environmental Action Project options:

- Reducing Plastic Marine Debris – School Campus Clean-Up
- Reducing Plastic Marine Debris – No Waste Lunches
- Our Watershed and Water Conservation
- Environmentally Safe Pesticides
- Safe Bay Food Consumption
- Ocean Acidification and Energy Conservation
- Creek Restoration
- Creek Water Quality Testing
- Reduce, Reuse, Recycle and Rot

Marine Science Institute
Redwood City

<http://www.sfbaymsi.org>

Inland Voyages-Bay and Ocean Invertebrates

<https://www.sfbaymsi.org/inland-voyage>

Grade Levels: K;1st;2nd;3rd;4th;5th;6th;7th;8th;9th;10th;11th;12th

How do so many creatures survive in rocky tidepools along the coast? What animals actually thrive in the muddy bottom of the Bay? How do the Bay invertebrates differ from their saltier cousins? The answers will be found in a close-up examination of crabs, anemones, clams, sea stars, urchins, and many others. Feeding and reproductive strategies and more advanced concepts can also be included. Program topics can be tailored specifically for your group. An Educator's Guide is provided.

Inland Voyages-Marine Habitats

<http://sfbaymsi.org/schoolprograms/inlandvoyages.html>

Grade Levels: K;1st;2nd;3rd;4th;5th;6th;7th;8th;9th;10th;11th;12th

Each hands-on program examines different habitats by showcasing the unique adaptations of the marine animals that live in each. Students work with live marine animals and plants, marine artifacts, and identification keys. These habitats are those commonly found in the San Francisco Bay surrounding areas. The following is a description of the different Marine Habitat Inland Voyages that are currently offered:

Rocky Intertidal Habitat - how tidepool animals move, eat and protect themselves.

Sandy Beach - how Sandy Beach animals are adapted to survive above and below the sand.

Marshes & Mudflats - fish and invertebrates commonly found in the local marshes and mudflats.

Kelp Forests - the kelp forest food web and human uses of kelp.

Open Ocean - the larger, pelagic animals that live away from the coastal waters of the Pacific Ocean.

Sunol-Ohlone Regional Wilderness
Sunol

<http://www.ebparks.org>

U-Pick Nature Program: In Park or Class

https://www.ebparks.org/activities/educators/field_trips/trips/default.htm

Grade Levels: K;1st;2nd;3rd;4th;5th;6th;7th;8th;9th;10th;11th;12th

We will customize a program to fit your needs. Pollination, weather, animal adaptations, and more! Can't make it to the park? We'll come to you!

Web of Life Field (WOLF) School
Aptos

<http://www.wolfschool.org/>

In-Class Presentation

<http://www.wolfschool.org/>

Grade Levels: K;1st;2nd;3rd;4th;5th;6th

The WOLF School offers in-class presentations to supplement your regular classroom instruction. All presentations include standards-based hands-on activities, songs, active games and student-centered discussion. Topics include: Animals! Animals!, Amazing Plants, California's Gold Rush, Native American History, Geology Rocks!, Salamanders, Water Cycle and Watersheds, Group Building and Challenge Activities, Design Your Own.

Wildcare

San Rafael

<http://www.wildcarebayarea.org>

Nature Van-Oceans

<https://www.discoverwildcare.org/programs/nature-van/>

Grade Levels: K;1st;2nd;3rd;4th;5th;6th

Nature Van programs bring the field trip to the classroom. Guided by professional science educators, the Nature Van teaches students about animal characteristics, adaptations, and food webs — all without leaving school. Presentations are designed for a single classroom; this is not a multi-class assembly program. Pre-K and Kindergarten programs last 45 minutes. Programs for 1st through 5th grades last sixty minutes, although shorter presentations are available upon request.

Young oceanographers meet the diversity of wildlife that inhabits the ocean and learn about the amazing adaptations that ocean animals have to survive in the cold, watery environment. On an imaginary trip they explore intertidal pools, open ocean, kelp forests, sandy beaches and estuarine habitats.

Nature Van- Endangered Wetlands

<https://www.discoverwildcare.org/programs/nature-van/>

Grade Levels: K;1st;2nd;3rd;4th;5th;6th

Nature Van programs bring the field trip to the classroom. Guided by professional science educators, the Nature Van teaches students about animal characteristics, adaptations, and food webs — all without leaving school. Presentations are designed for a single classroom; this is not a multi-class assembly program. Pre-K and Kindergarten programs last 45 minutes. Programs for 1st through 5th grades last sixty minutes, although shorter presentations are available upon request.

Where have all our wetlands gone? Don your detective's hat to scour this vanishing habitat and discover how it acts as a restaurant, hotel, nursery and a filter for so many local creatures (including us). As you investigate this dynamic habitat you will realize why Salt Marsh Harvest Mice and Pickleweed are worth preserving.

Program Type: Overnight Program

Camp Ocean Pines

Cambria

<http://www.campoceanpines.org/>

Overnight Program at Camp Ocean Pines

<http://www.campoceanpines.org/outdoor-education>

Grade Levels: K;1st;2nd;3rd;4th;5th;6th;7th;8th;9th;10th;11th;12th

Camp Ocean Pines Outdoor School offers hands-on, standards based environmental education year round providing a great outdoor educational experience for school groups. Our services include meals, afternoon snacks, lodging, lessons, and exciting outings led by experienced naturalists. Students sleep in new passive solar designed cabins built with strawbale construction. Highlights of the 5-day camp include hiking to our secret observation point at the elephant seal breeding grounds in San Simeon, sandy beach studies at San Simeon Cove, or estuary studies and kayaking with the otters in Morro Bay, with transportation included. Onsite, we provide standards-based lessons or a custom program to meet your specific needs. Call to check availability and we'll discuss a program that will best fit the needs of your school.

NatureBridge at Golden Gate
Sausalito
<http://www.naturebridge.org/golden-gate>

Residential Field Science Program

<http://www.naturebridge.org/school-group-field-science-golden-gate>

Grade Levels: K;1st;2nd;3rd;4th;5th;6th;7th;8th;9th;10th;11th;12th

NatureBridge environmental science programs in the Golden Gate National Recreation Area offer students in grades K-12 the opportunity to learn hands-on science in one of the San Francisco Bay Area's most pristine coastal areas. Our two- to five-day residential outdoor science programs are led by experienced educators and customized to enhance your school's curriculum. Environmental education in a national park: Located just minutes from San Francisco, students can explore the shores of Rodeo Beach as well as 60 miles of coastal hillsides rich with beaches, cliffs, estuary, chaparral, and woodlands.

Inquiry-based learning: Students collect and identify macroinvertebrates in Rodeo Pond, observe seals from the bluffs, and study the adaptations of tide pool creatures in our state-of-the-art intertidal marine lab.

Inspired to action: Students see up close the impact their actions have on the world around them through composting food waste or volunteering at the plant nursery which inspires students toward lifelong stewardship.

San Francisco Maritime National Park
San Francisco
<http://www.maritime.org>

Pampanito Weekday Overnight Program

<https://maritime.org/education/edupampanito/>

Grade Levels: 1st;2nd;3rd;4th;5th;6th;7th;8th;9th;10th;11th;12th

Get a first-hand, up-close glimpse at one of the top-secret naval vessels that helped to win WW II. As one of the last surviving fleet submarines, the USS Pampanito provides a rare opportunity to bring alive the history which most people can only read about. 9 free parking spots.

Program Type: Temporary Exhibit

Monterey Bay Aquarium
Monterey
<http://www.mbayaq.org>

Tentacles: The Astounding Lives of Octopuses, Squid and Cuttlefishes

<http://www.montereybayaquarium.org/animals-and-experiences/exhibits/tentacles>

Grade Levels: K;1st;2nd;3rd;4th;5th;6th;7th;8th;9th;10th;11th;12th;PK

What has a mantle, but no lamp? Beak, but no wings? Suckers, but no candy? Cephalopods! They're back and more captivating than ever in our newly re-opened Tentacles exhibit — come visit and they'll camouflage, crawl and jet-propel their way into your heart and mind.