

Host Site: Amy's Farm (**teacher led activity**)

Website: <http://www.amysfarm.com/visit/tours>

Field Trip Contact: Melissa Castaneda

melissa@amysfarm.com

1-844-426-9732

About Melissa: Melissa has served at Amy's Farm for twenty-one years. As a third generation Japanese-American farmer, Melissa is passionate about educating those interested in learning about farming, cultivating the land and relationships and desires to see the art of farming preserved for generations to come!

Grade Levels: Pre K-12

Length of program: 30 minutes to 1 hour

Field Trip Description: Virtual tours are offered for all ages Preschool-12th grade. Offering an experience to introduce the sights and sounds of Amy's Farm with a guided tour with video and still photographs and activity sheets. **MEEC covers presentation cost.**

Host Site: Aquarium of the Pacific (**teacher lead activity**)

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

https://www.aquariumofpacific.org/teachers/lesson_plans/science_stars

<https://www.aquariumofpacific.org/teachers/webcamkits>

Grade Levels: K-12

Field Trip Description: Science Stars (K-5); Aquarium Webcam (K-8); various website classes

Special Instructions:

1. Teachers submitting applications for Aquarium of the Pacific will need to submit name of activity or lesson and cost breakdown for supplies needed for students.

Host Site: California Science Center (**teacher lead activity**)

Website: www.californiasciencecenter.org

Grade Levels: K-12

Field Trip Description: Stuck at Home Science activities

Special Instructions:

1. Teachers submitting applications for California Science Center will need to submit name of activity and cost breakdown for supplies needed for students.

Host Site: CalPortland Company (**presenter lead activity- Concrete in a Cup**)

Website: www.calportland.com/environment.aspx

Field Trip Contact: Catalina Fernandez-Moores
cfernandez@calportland.com
626-244-4358

About Catalina: Catalina is an environmental manager for CalPortland, which means that she makes sure all their cement and concrete plants are following local, state, and federal environmental laws. This spans water, air, wildlife and hazardous waste. She is fluent in both English and Spanish. As a recent college grad, she is also more than happy to speak with kids about college. In college she got a bachelors and master's degree in biosystems engineering, where she focused on water resources.

Grade Levels: 3-12

Length of tour: 1 hour

Field Trip Description: Kids will be shown a video of our Oro Grande Cement Plant that has rock blasts and walks you through the process of turning limestone into cement. After a chance for Q&A with Catalina, she will lead them through making concrete in a cup! Kids will learn about ratios and what concrete is by mixing sand, gravel, cement, and water. It can get a little messy.

Host Site: CEMEX (**presenter led activity- Toothpaste with a Twist**)

Website: www.cemexusa.com

Field Trip Contact: Alejandra Silva
Alejandrav.silva@cemex.com
760-381-7649

About Alejandra: As Environmental Manager and Coordinator she is in charge of environmental regulatory compliance and as Warehouse Supervisor she is in charge of keeping inventory and spare parts.

Grade Levels: 4-12

Length of tour: 1 hour

Field Trip/Activity Description: CEMEX will provide all materials and lead "Toothpaste with a Twist" as they learning about the mining process at a local cement plant.

Host Site: High Desert Power Project (**teacher lead activity- SparkFun Paper Circuits Kit**)

Field Trip Contact: Ali Balcazar
760-530-5501 or abalcazar@mrpgenco.com

Grade Levels: 3-6

Length of tour: 30 minutes – 1 hour

Field Trip Description: Virtual plant tour and a discussion on the different forms of energy that can include a demonstration of energy conversion to electricity. The virtual tour will be guided from maintenance and engineering staff with extensive knowledge of power plant equipment and electric power production.

Host Site: Liberty Utilities (**teacher led activity- “There’s No New Water”**
www.groundwater.org)

Website: <http://www.avrwater.com/>

Field Trip Contact: Norma Armenta
Conservation Coordinator
760-559-0296 or norma.armenta@libertyutilities.com

About Norma: Norma has been involved in water conservation for 13 ½ years

Grade Levels: 3-6

Length of tour: 30 minutes - 1 hour

Field Trip Description: Students will learn about the Liberty Utilities water system serving Apple Valley. They will be introduced to the major components of a domestic drinking water system and gain an understanding of how water is produced and delivered to the customer’s house. The virtual presentation includes a discussion on water quality and water system maintenance, as well as our regions water source; an overview of current statewide water supply conditions and water conservation tips. Each attendee will receive a water-saving tips and tools.

Special Instructions:

1. Please contact MEEC to arrange for the desired activity kit (teacher kit or student kits)

Host Site: Mitsubishi Cement Corporation (**teacher led activity or in-person field trip available**)

Site Address: 5808 CA-18, Lucerne Valley, CA 92356

Website: <http://mitsubishicement.com/>

Field Trip Contact: David Rib
Environmental Manager
760-248-5184 or drib@mistsubishicement.com

Grade Levels: K-12

Length of tour: 1 hour – 2 hours

Field Trip Description: See how cement is made from raw materials blasted from the mountain-side into an important building material. Beautiful views of the cement process overlook Lucerne Valley and beyond. See how vegetation is re-established to restore the natural habitat. See how raw materials are mixed and heated and then transformed to cement clinker. See a big pile of waste tires that are used daily as clean fuel for the process. Every student will learn the difference between cement and concrete! Virtual presentation includes speaker and video with “**concrete in a cup**” activity supplies provided for teacher lead activity.

Special Instructions: In-person trips available. Please note the following guidelines:

- All participants wear masks
- Limit to 20 participants
- Each participant will fill out a COVID exposure form and have no high-risk exposure within 2 weeks
- Arrive on a bus or caravan enough vehicles so participants can spread out in vehicles including up to 6 in MCC passenger van.
- Tour of outside areas, no inside locations (except restroom at Admin)

- No meals on site

Host Site: Mojave Desert Air Quality Management District (**presenter led activity- plastic bottle balloon lungs**)

Website: <http://www.mdaqmd.ca.gov/>

Field Trip Contact: Ryan Orr
Communications Supervisor
760-245-1661 ext. 3001

Grade Levels: 3-12

Length of tour: 30 minutes-1 hour

Field Trip Description: Virtual includes a grade appropriate air quality presentation which will be based on grade level and topics that educator would like to address with their students.

Host Site: Palmdale Water Reclamations Plant (**teacher led activity- Model of Waste Water Treatment** http://www.waterwise.co.za/export/sites/water-wise/education/activities/wastewater-cleaned/downloads/Making_a_Model_of_a_Wastewater_Treatment_Works.pdf)

Website: www.lacsd.org

Field Trip Contact: Michelle Vieville
(562) 908-4288 ext.2300 or michelevieville@lacsd.org

Grade Levels: 5-12

Length of tour: 30 minutes -1 hour

Field Trip Description: We invite you to take a virtual tour of our water reclamation plant to see how your wastewater is cleaned. The Palmdale WRP is a tertiary treatment plant with solids processing facilities. The plant provides primary, secondary, and tertiary treatment for a design capacity of 12 million gallons of wastewater per day. The plant serves a population of approximately 150,000 people. The effluent is cleaned to Title 22 (drinking water) standards and is beneficially reused for irrigation of trees and fodder crops on City of Los Angeles Department of Airports' property and also for parks in the city of Palmdale. The Palmdale WRP processes all wastewater solids generated within its service area. The wastewater solids are anaerobically digested, stored, and then dewatered using centrifuges. The dewatered cake, or biosolids, is hauled away and beneficially used for agricultural land application.

Host Site: Rio Tinto Borates: Borax Visitor Center (**teacher lead activity- Slime**)

Website: <https://www.borax.com/visitorcenter/>

Field Trip Contact: Simone Hensher
Manager Mine Technical Services
661-528-8390 or simon.hensher@riotinto.com

About Simone: Simone manages a group of engineers and geologist that are responsible for developing the mine plans, monitoring geology, surveying, and short-range planning.

Grade Levels: 6-12

Length of tour: 30 minutes - 1 hour

Field Trip Description: Learn about the history of borax the mineral, and Borax the company, and mining today, how borates are used and how they are transported to the world.