Education Programs

1st Grade - Earth's Place in the Universe

Program Type: Assembly

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 shows are 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.

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

Program Type: Family Science Night

Chabot Space and Science Center
Oakland
http://www.chabotspace.org

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Chabot-to-go Travelling Science Fair
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Comets and Shooting Stars
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**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.

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
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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

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.

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!

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.
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.

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.

Lawrence Hall of Science
Berkeley
lawrencehallofscience.org

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.

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.

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.

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 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: 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.

Program Type: In-Class Program

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!

Program Type: Overnight Program
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.