

**More than just looking
through telescopes...**

Astronomy for the Classroom

*These are activities developed
by the Astronomical Society of
the Pacific (ASP) through the
Astronomy from the Ground Up
(AFGU) program and facilitated*



*by staff
and volun-
teers at
Mosquito
Hill.*

*Activities are designed to help
understand and build apprecia-
tion for objects and phenome-
non that exist or occur in
space.*

*Visit our web page for other
exciting learning opportunities.*

www.mosquithill.com



**Mosquito Hill Nature Center's
Douglas Dome**

**Mosquito Hill Nature Center
Proudly Supports**

Astronomy for the Classroom

**Your Portal to Fun and
Adventure.**



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Astronomy 101 at the Hill

Each theme area has several hands-on activities related to that topic designed to bring the world of the unknown into the world of understanding. By utilizing our senses and abilities during craft projects, activities, viewing, and more, we will bring the nebulous field of astronomy into clearer focus.

Activities are designed for 4th or 5th grade, older students and adults also enjoy the experiences.

For 1/2 day field trips please select first and second choice of program when registering.

For all day outings, please select 3 programs to help the staff prepare for your visit to the nature center.

Alternative activities will be chosen for some experiences depending on weather conditions.

Astronomy 101 Programs at a Glance~

Twinkle Twinkle Little Star - Constellations— Learn stories and lore of some of the common shapes we see in the sky by connecting the stars. Students make and learn how to use simple take-home *star finders*. Students will understand spacial concepts after building a common 3-D *constellation*.

Lenses, Lasers & Telescopes - Working in small groups, students will experience light being bent and refracted through lens. Test their skills in math and measuring by trying to *hit a target* with a laser. Understand the differences between types of telescopes and if weather permits look at *Sun Spots* using special filters.

Change in the Universe— What's Predictable? What's Not! *Size up the Moon*, making and using *Star Finders*, making and testing *Pocket Sun Clocks*, *From Fire to Ice—Let's build a Kitchen Comet!* Experiencing *Moon Phases*, , and experimenting with *Moving Shadows*

How Big? How Far? The Scale of the Universe Test your skills by sorting *Cosmic Image Cards*, *Worlds in Comparison*, *Solar System in my Pocket!*, *3-D Constellations* and a *Universe of Galaxies*

The Solar System *Worlds in Comparison*, visit the *Solar System* and be home for supper, *Saturn* as you never have seen it before, *Our Sun*, build a *Pocket Sun Clock* and make a *Pocket! Solar System*

Comets, Shooting Stars and Meteor Shower Help the Comet Chef make a *Kitchen Comet*, learn how comets exist in space , how they create *meteor showers* and what impact they have by *Making Craters*

Light and Color: Breaking the Cosmic Code Make a *Secret Message* to give to a friend, see the *Universe in a Different Light*, *Red Hot*, *Blue Hot*, *Mapping the Invisible Universe*, and *Seeing Through Alien Eyes*

Moon Madness - *Making Craters*, understanding *Moon Phases*, participate in a *Moon Jump*, *Crash Landing* can you survive on the Moon?, Learn about *Daytime Moons* and make a *Moon Pie*

Discovering New Worlds - Can There be Life out There? Find out if we are in the *Habitable Zone*, How we *Find Planets Around other Stars*, *Explore Strange New Worlds* and *Seeing Through Alien Eyes*

Fees:

1/2 day	\$2.50/Student
All day	\$3.50/Student