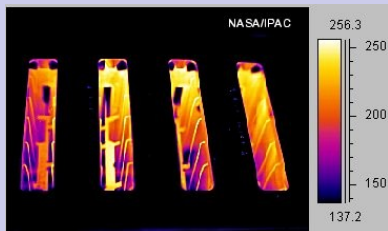


## Calling all Parents...

Looking for a quality education-based after school program for your students? `Imiloa is pleased to offer Science Rocks! for students in grades 4, 5, and 6.



NASA/IPAC



**`Imiloa Astronomy Center of Hawaii**

600 `Imiloa Place  
Hilo Hawaii`i 96720



UNIVERSITY  
of HAWAII`I  
**HILO**

For information:

[www.imiloahawaii.org](http://www.imiloahawaii.org)

Contact Craig Mitchell  
Youth Explorations Program Aide  
Phone: 969-9720  
Email: [cmitchell@imiloahawaii.org](mailto:cmitchell@imiloahawaii.org)



**`Imiloa Astronomy  
Center of Hawaii`i**

**Science Rocks!**  
**`Imiloa  
After School Program**  
(The Learning  
Continues...  
The FUN Never Stops...)



**School Year:**

2011-2012

All students in Grades 4-6  
Wednesdays 2:30 p.m.—4:30 p.m.

[www.imiloahawaii.org](http://www.imiloahawaii.org)

- DOE
- Charter Schools
- Private Schools
- Homeschools

# ‘Imiloa Astronomy Center After School Program

## The Experience:

This is a high quality experience that integrates science, math, and culture. We will be using the latest in science kits, equipment, and technology to create a high-tech program that will stimulate creative thinking and higher order problem-solving strategies! This program will get your kids “thinking about science” because they will be “doing science.” Send them so they can tinker...send them so they can dream...

## Goals:

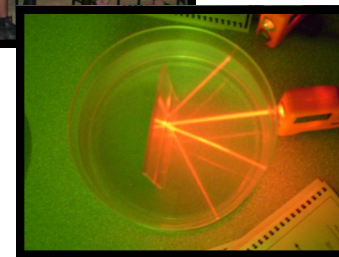
- To introduce basic science concepts in physics, chemistry, engineering and technology to students between the grades of 4, 5, and 6 through interactive demonstrations and activities that challenge them to think of explanations.
- To introduce and integrate basic math to ground the science concepts learned. The practice of using math to reinforce the physical understanding of a phenomenon is invaluable and supported by educational research.
- To create experiences that inspire students to search out more knowledge, ask more questions, and seek their own answers.
- To facilitate students in acquiring a solid background in STEM skills
- To develop critical thinking skills and creativity.
- To see “science” everywhere!

## Topic/Title

Geometry, Size, and Measurement  
 Electricity/Magnetism  
 Light I, Light II  
 Sound  
 Properties of Matter  
 Properties of Water/Hydrodynamics  
 Energy I, II  
 Pico Crickets (Art & Electronics)  
 Air Pressure  
 Flight  
 Rockets  
 Science of Art/Film and Animation  
 \*New  
 Astronomy I, II,  
 Space Science  
 Inventions in Motion: vehicles and folk toys  
 Geometric Bubbles  
 Geometry of Nature  
 Heat and Thermodynamics  
 Science of Cool  
 Combustions & Reactions  
 Slime and Polymer Chemistry  
 Food Chemistry \*New  
 Plants  
 It's alive! \*New  
 Earth Science  
 Weather  
 Mad Math  
 Sustainable Living  
 CSI  
 Human Body I  
 Locomotion, Sports and Games \*New

## Date(s)

Aug 10, 2011  
 Aug 17, 2011  
 Aug 24, Aug 31, 2011  
 Sept 7, 2011  
 Sept 14, 2011  
 Sept 21, 2011  
 Sept 28, Oct 19, 2011  
 Oct 26, 2011  
 Nov 2, 2011  
 Nov 9, 2011  
 Nov 16, 2011  
 Nov 30, 2011  
 Dec 7, Dec 14, 2011  
 Jan 11, 2012  
 Jan 18, 2012  
 Jan 25, 2012  
 Feb 1, 2012  
 Feb 8, 2012  
 Feb 15, 2012  
 Feb 22, 2012  
 Feb 29, 2012  
 Mar 7, 2012  
 Mar 21, 2012  
 Mar 28, 2012  
 Apr, 4, 2012  
 Apr 18, 2012  
 Apr 25, 2012  
 May 2, 2012  
 May 9, 2012  
 May 16, 2012  
 May 23, 2012



# ‘IMILOA

## Astronomy Center of Hawai‘i

**Time:** From August 10th. Wednesday afternoons when school is in session:

2:30 p.m. to 4:30 p.m.

**Fee:** \$18.00 member/\$20.00 nonmember

**Capacity:** Maximum 20 students/session

Payment will be accepted on the day-of  
 Students are welcome to bring a snack.