



Fall 2011 Home School Program:

Rocket Science: Understanding Newton's 3 Laws of Motion through Building Rockets

NASA's last Space Shuttle mission returned in July of this year, which signals a major turning point in our space exploration. In this class, we'll learn this history of rocketry and how Newton's laws elevated rocketry to a science.

In each class, students will work together to build and set off rockets of varying size, shape and power. Each rocket will help us to better understand Newton's Law of Motion and help to prepare the group for our final rocket launch during our last class. Pairs of students will spend part of each class designing their own rocket, conducting test launches and building the final version for a competition on November 10th.

This program series is for students ages 10-15 and the cost is \$70/members, \$80/non-members for the 6 week program. This includes all materials needed for rocket construction. Pre-registration is required and class is limited to 10 participants.

Class Dates: October 6, October 13, October 20, October 27, November 3, November 10

Spring 2011 Home School Program:

Insects: Collection, Identification & Preservation

A series of five classes designed to introduce students to the incredible world and diversity of insects. While some time will be devoted to the understanding of how insects are classified in the classroom, much of this class will be spent outside collecting insects in various ecosystems. These insects will be identified, preserved and mounted as each young entomologist begins their own personal scientific collection.

Students will be introduced to various collection methods used today by entomologists and encouraged to design their own collection techniques. Participants can expect to get an up close look at the collected insects using microscopes. Interested students can create their own insect identification guide using cameras to document and describe collected insects.

This program series is for students ages 10-15 and the cost is \$50/members, \$60/non-members for the 5 week program.

Class Dates: 5/5, 5/12, 5/19, 5/26, 6/2