



## **Grade 1: Mini Lab Boxes**

### **Please choose one Mini-Lab for your field trip.**

#### ***Earth Science***

##### **Mini-Lab #1 Fly Me to The Moon!**

Students discover that Earth's nearest neighbor in space is the moon. Through direct observations and modeling exercises, students learn that the Moon is visible day and night, that it rises and sets, appears to change shapes, cast shadows, reflects light, and lacks air and water. Students record daily drawings of the full lunar cycle in their mini-lab booklets. Then they demonstrate the phases of the Moon and its far side. Students also form craters on a "moon dust" surface and handle substances very similar to Moon soil and rocks.

**Projects Include: Moon model, Lunar Phase Model, Moon Soil and Rock Survey.**

##### **Mini-Lab #2 Sunshine and Shadows.**

Students explore shadows by identifying what is needed to make a shadow, which includes a light source, a solid object, and a surface. Your class will learn how the Sun's movements affect shadow shapes. They will also learn about scientists called meteorologists who study and forecast weather, sunny or not!

**Projects include: Building a Sundial, Creating Silhouettes, and designing a UV bracelet.**

##### **Mini-Lab #3 Air and Weather.**

Students look to the sky to make observations that will create learning opportunities and understanding of the Earth's atmosphere. Your class will explore and record the weather, observe wind speed, and observe the night sky looking for changes (the Sun, the Moon, and the stars).

**Projects include: Making parachutes, constructing a weather window, and making a wind vane.**