



## SPACE KIT

### SECTION 1: DAY AND NIGHT

#### LAB

#### INTRODUCTION

This lesson will help students understand the difference between rotations and revolutions while utilizing a dark room and a lamp as the sun. The Earth rotates on its axis once every 24 hours and revolves around the Sun every 365  $\frac{1}{4}$  days. The Earth tilts on its axis, thus sometimes North America is tilted away from the Sun, resulting in slanted Sun rays and cooler temperatures.

#### ASSESSMENT ANCHORS ADDRESSED

- S4.A.3.1** Use models to illustrate simple concepts and compare the models to what they represent.
- S4.A.3.3** Identify and make observations about patterns that regularly occur and reoccur in nature.
- S4.D.3.1** Describe Earth's relationship to the sun and the moon.

#### PURPOSE

Students will identify their misconceptions about what causes day and night when they study a model of the Earth and the Sun.

#### MATERIALS

**For the class:**

- 1 lamp with bulb   Globe\*  
Extension cord\*   Book\*

*Teacher provides items marked with \**