



Earth in Space

Inquiry Warm-Up, *What Causes Day and Night?*

In the Inquiry Warm-Up, you investigated how the sun and Earth interact to produce night and day on Earth. Using what you learned from that activity, answer the questions below.

1. **COMMUNICATE** Draw three diagrams to show the relationship between the light and the globe in Step 3 of the lab. The first diagram should show the globe before you turned it, the second should show the globe when it was turned 180 degrees, and the third one should show the globe after you stopped turning it. In all three diagrams, be sure to identify your location on the globe and indicate any motion.

2. **PREDICT** Based on your model, what do you think would happen in terms of night and day if Earth stopped rotating?

3. **INFER** Think of the directions from which the sun rises in the morning and sets in the evening. If you are looking straight down at Earth's North Pole, which way does Earth rotate, clockwise or counterclockwise?

4. **DRAW CONCLUSIONS** Does the sun really move across the sky during the day? Explain.
