

# Earth's Tilt



## Procedure

1. **Work with a partner.** As shown in your book, place a lump of clay with a toothpick on each pole of a globe. The toothpicks represent Earth's axis.
2. **Observe** Hold the globe so that the North Pole points at a drawing of Polaris your teacher taped to a wall.
3. **Use Models** Use a lamp as a model of the Sun. As you hold the globe, have your partner place the lamp so that it shines on the globe. **Safety:** Do not touch the bulb. It will get hot.
4. **Record Data** Draw your Earth-Sun model. Mark *X* on the part of Earth that is getting the most direct light.

5. **Use Models** While holding the globe so the axis stays pointed at Polaris, walk around the lamp to the opposite side. Draw the model again in the box on the next page. Mark *O* on the drawing to show the part of the globe that is now receiving the most direct light.

**Conclusion**

**1. Use Models** Describe how Earth’s motion changes the amount of direct light received by different parts of Earth.

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**2. Draw Conclusions** What season would it be for the place marked X? O?

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**Guided Inquiry**

**Experiment**

Rotate the globe as you hold it next to the lamp. Predict whether California gets more hours of sunlight on a summer day or on a winter day. Experiment to find out.