## Vision and light reflections: catch the speed of light



## **Objective**

Understand how shadows are made with a light source; the earth's rotation on its axis causes the sun to move in the sky, helping us to track time through light

## **Materials**



## Instructions

- 1. mark the area with an x where you will stand each time you trace your shadow
- 2. have an adult or friend trace your shadow at least various times throughout the day (morning, midday and late afternoon)
- 3. note the time of day each tracing was made
- **4.** record your observations of each shadow tracing (long and skinny? Short and wide?)
- 5. note the approximate location of the sun in the sky at each tracing
- 6. measure and record the length of each shadow
- 7. using the camera, take photos to record your observations
- **8.** create a hypothesis (educated guess) about why your shadow changes throughout the day