

### **SOLUTIONS**

**1** On calm days, the surface of a lake is smooth, so the Sun's rays reflect in the same direction, as they do in a mirror. On windy days, the surface of a lake is rough, and the Sun's rays reflect in many directions.

**2** Model answer:

A telescope is an instrument with lenses that help us see faraway things bigger, brighter and closer. Astronomers to study the stars and other objects in the night sky use telescopes.