

Use with textbook pages 182–186.

## Mirror, mirror, on the wall

### Vocabulary

behind	images
concave mirror	in front
converging	plane mirror
convex mirror	reflect
diverging	upright
focal point	upside down

**Use the terms in the vocabulary box to fill in the blanks. Use each term only once. You will not need to use every term.**

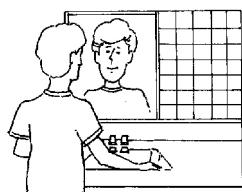
1. All mirrors \_\_\_\_\_ light.
2. There are three types of mirrors. All three types reflect light rays to form \_\_\_\_\_.
3. A \_\_\_\_\_ is a mirror that is flat and smooth. It produces an image that is the same as the object and appears to be the same distance from the mirror as the object.
4. A \_\_\_\_\_ is a mirror that curves inward. The image formed by this type of mirror depends on how far away the object is from the \_\_\_\_\_.
5. Light rays that come together at a focal point are described as \_\_\_\_\_.
6. If the object is far from the concave mirror, its image is small and \_\_\_\_\_.
7. If the object is close to a concave mirror, then the image appears to be larger than the object and is \_\_\_\_\_.
8. A \_\_\_\_\_ is a mirror that curves outwards. It reflects parallel light rays as if they came from a focal point \_\_\_\_\_ the mirror.
9. Light rays that spread apart after reflecting are described as \_\_\_\_\_.

**Goal** • Show your understanding of the kinds of mirrors used for different purposes.

### What to Do

Identify the type of mirror (plane, convex, or concave) used in each situation below. Write your answer on the line provided.

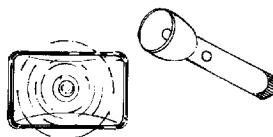
1. bathroom wall mirror



Purpose: to show your exact appearance

Type of mirror: \_\_\_\_\_

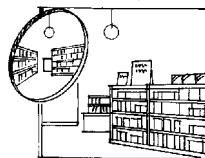
2. car headlights and flashlights



Purpose: to project a strong beam forward

Type of mirror: \_\_\_\_\_

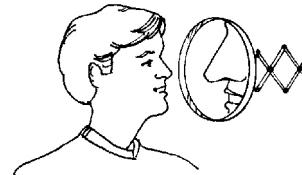
3. store surveillance mirror



Purpose: to show a wide view

Type of mirror: \_\_\_\_\_

4. cosmetic mirror



Purpose: to show a magnified view of parts of your face.

Type of mirror: \_\_\_\_\_

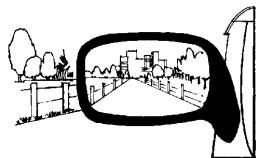
5. one-way mirror



Purpose: to see into a brightly lit room; looks like a mirror to the people being observed

Type of mirror: \_\_\_\_\_

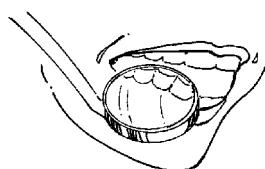
6. car mirror



Purpose: to show a wide-angle view behind and beside the car

Type of mirror: \_\_\_\_\_

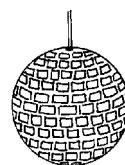
7. dental mirror



Purpose: to make teeth visible and to magnify them

Type of mirror: \_\_\_\_\_

8. reflecting ball at a dance



Purpose: to project portions of lights hitting it in many different directions

Type of mirror: \_\_\_\_\_