

Bill Nye Video: Light Optics

Before beginning the video, copy down the definitions for the following terms from the glossary in your textbook:

Reflection:

Concave:

Refraction:

Convex:

Focal Point:

Total Internal Reflection:

Questions from Bill Nye Light Optics Video

1. Light can _____ , light can be _____ and light can be _____.
2. Eye glasses and microscopes work because of _____.
3. What kind of light does your remote control for your television use? _____
4. The way a mirror is curved affects the way it _____ light
5. Draw a diagram of a **concave mirror**.
7. Draw a **convex mirror**.



6. Things look _____ in a concave mirror.
convex mirror
8. Things look _____ in a
9. What shape is your eye? _____
10. Why can you see the penny in the tin pan when water was poured onto it?
11. What can fibre optics be used for?
12. Explain how a greenhouse works.

Try the following quiz that is based on information presented in the video.

1. We see objects because light is reflected from them. T / F
2. When light bounces straight off a surface, we say that it is refracted. T / F
3. When light is bent, it changes direction. T / F
4. Light travels in waves. T / F
5. When light waves slow down they change direction. T / F
6. Convex lenses make things look smaller and farther away. T / F
7. Mirror images are formed by light from the object's right side reflecting from the right side of the mirror and light from the object's left side reflecting from the left side of the mirror. T / F