

Name:

Date:

Class:

Bright Ideas Worksheet **Answer Key**

Mirror Reflection

Draw a diagram that shows how our eyes see our reflection in a mirror. Don't forget your labels.

Drawings will vary.

In your own words, explain how light reflection allows us to see objects.

We see objects because of how light reflects off their surfaces. When light, such as sunlight or light from a lamp, strikes an object, some of it bounces off in different directions. This process is called reflection. The way light reflects depends on the surface of the object. Smooth surfaces, such as mirrors, cause *specular reflection*, where light bounces off in a predictable direction, while rough surfaces, such as paper or walls, cause *diffuse reflection*, scattering light in many directions. Some of this reflected light reaches our eyes, carrying information about the object's shape, color, and brightness. Our eyes then send this information to the brain, which processes it and enables us to see and understand what we're looking at. In this way, reflection allows light to carry visual details from objects to our eyes, making it possible for us to see them.