



Waves: Light and Sound

Name: _____

Date: _____

Grade: Grade 4

Part A: Fix the Sentence

Each sentence has an error. Rewrite it correctly on the line.

1. Fix the sentence: We can see objects in a totally dark room with no light at all.

Rewrite: _____

2. Fix the sentence: The moon makes its own light just like the sun does.

Rewrite: _____

3. Fix the sentence: An opaque object lets all the light pass through it clearly.

Rewrite: _____

Part B: Fill in the Blank

Write the missing word or number on each line.

1. The sun, a lamp, and a candle flame are all examples of a light _____.
2. We see a red apple because light bounces off the apple and into our _____.
3. A clear glass window is _____, which means light passes straight through it.
4. Frosted bathroom glass is _____ because some light passes through but the image is blurry.

Part C: Short Answer

Answer each question in one or two complete sentences.

1. How does light from the sun help a Grade 4 student see a soccer ball on the playground?

2. Compare an opaque book and a transparent plastic bag for letting light through.

Part A: Fix the Sentence

Each sentence has an error. Rewrite it correctly on the line.

1. Fix the sentence: We can see objects in a totally dark room with no light at all.

Rewrite: We need light to bounce off objects so our eyes can see them.

2. Fix the sentence: The moon makes its own light just like the sun does.

Rewrite: The moon reflects light from the sun; the sun is the real light source.

3. Fix the sentence: An opaque object lets all the light pass through it clearly.

Rewrite: An opaque object blocks light from passing through.

Part B: Fill in the Blank

Write the missing word or number on each line.

1. The sun, a lamp, and a candle flame are all examples of a light source .
2. We see a red apple because light bounces off the apple and into our eyes .
3. A clear glass window is transparent , which means light passes straight through it.
4. Frosted bathroom glass is translucent because some light passes through but the image is blurry.

Part C: Short Answer

Answer each question in one or two complete sentences.

1. How does light from the sun help a Grade 4 student see a soccer ball on the playground?

Light waves travel from the sun, which is a source, all the way to the soccer ball. The ball reflects some of the light back into the air. Those reflected light waves enter the Grade 4 student's eyes, and the brain understands the shape and color of the ball.

2. Compare an opaque book and a transparent plastic bag for letting light through.

An opaque book blocks light, so a Grade 4 student cannot see through it and a shadow forms behind it. A transparent plastic bag lets almost all the light pass through, so the student can see the shape and color of items inside the bag.
