



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: In Grade 4 we learn the eardrum vibrate when sound waves hit it.

Rewrite: _____

2. Fix the sentence: Grade 4 students knows that eyes detect light waves and send signals to the brain.

Rewrite: _____

3. Fix the sentence: The brain interpret the signals from the ears and eyes in Grade 4 lessons.

Rewrite: _____

Part B: Fill in the Blank

Write the missing word or number on each line.

1. In Grade 4, the thin skin inside your ear that vibrates with sound is called the _____.
2. Grade 4 science: our eyes detect _____ waves that bounce off objects around us.
3. The _____ receives signals from the ears and eyes and tells us what we hear and see in Grade 4.
4. A nerve message traveling from the ear to the brain is called a _____ in Grade 4 lessons.

Part C: Short Answer

Answer each question in one or two complete sentences.

1. In Grade 4 words, explain what happens inside your ear when a friend claps nearby.

2. Grade 4 question: how do your eyes and brain work together to let you see a red apple?

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Rewrite: Grade 4 students know that eyes detect light waves and send signals to the brain.

3. Fix the sentence: The brain interpret the signals from the ears and eyes in Grade 4 lessons.

Rewrite: The brain interprets the signals from the ears and eyes in Grade 4 lessons.

Part B: Fill in the Blank

Write the missing word or number on each line.

1. In Grade 4, the thin skin inside your ear that vibrates with sound is called the eardrum.
2. Grade 4 science: our eyes detect light waves that bounce off objects around us.
3. The brain receives signals from the ears and eyes and tells us what we hear and see in Grade 4.
4. A nerve message traveling from the ear to the brain is called a signal in Grade 4 lessons.

Part C: Short Answer

Answer each question in one or two complete sentences.

1. In Grade 4 words, explain what happens inside your ear when a friend claps nearby.

Sound waves from the clap travel through the air and push on my eardrum. The eardrum vibrates and sends signals through nerves to my brain, which understands the sound as a clap.

2. Grade 4 question: how do your eyes and brain work together to let you see a red apple?

Light waves bounce off the red apple and enter my eyes. My eyes turn the light into signals that travel along nerves to my brain. The brain reads the signals and tells me I see a red apple.
