



Waves: Light and Sound

Name: _____

Date: _____

Grade: Grade 4

Part A: Fill in the Blank

Write the missing word or number on each line.

1. In Grade 4 science, light always travels _____ than sound in air.
2. Grade 4 fact: sound waves travel _____ through water than they do through air.
3. We see lightning before we hear thunder because the light reaches our eyes _____ in Grade 4 lessons.
4. The material a wave moves through is called the _____ in Grade 4 science.
5. Sound waves cannot travel through empty _____, but light waves can in Grade 4 class.
6. Sound usually travels faster through _____ than through liquids in Grade 4 textbooks.
7. Counting seconds between lightning and thunder helps you guess how _____ the storm is in Grade 4.
8. The path of energy from a source to your senses can be called a _____ in Grade 4 science.
9. Sending a wave from one place to another is called _____ in Grade 4 lessons.

Part B: Matching

Match each item on the left to the correct answer on the right.

1. Match each item to its correct answer.

Grade 4: sound speed in air vs water	→ _____	Faster in water
Grade 4: lightning then thunder	→ _____	Light arrives first
Grade 4: medium	→ _____	Material a wave moves through
Grade 4: vacuum of space	→ _____	Sound cannot travel here

Answer Key · Waves: Light and Sound · Grade: Grade 4

Part A: Fill in the Blank

Write the missing word or number on each line.

1. In Grade 4 science, light always travels faster than sound in air.
2. Grade 4 fact: sound waves travel faster through water than they do through air.
3. We see lightning before we hear thunder because the light reaches our eyes first in Grade 4 lessons.
4. The material a wave moves through is called the medium in Grade 4 science.
5. Sound waves cannot travel through empty space, but light waves can in Grade 4 class.
6. Sound usually travels faster through solids than through liquids in Grade 4 textbooks.
7. Counting seconds between lightning and thunder helps you guess how far the storm is in Grade 4.
8. The path of energy from a source to your senses can be called a signal in Grade 4 science.
9. Sending a wave from one place to another is called transmission in Grade 4 lessons.

Part B: Matching

Match each item on the left to the correct answer on the right.

1. Match each item to its correct answer.

Grade 4: sound speed in air vs water	→ <u>Faster in water</u>	Faster in water
Grade 4: lightning then thunder	→ <u>Light arrives first</u>	Light arrives first
Grade 4: medium	→ <u>Material a wave moves through</u>	Material a wave moves through
Grade 4: vacuum of space	→ <u>Sound cannot travel here</u>	Sound cannot travel here