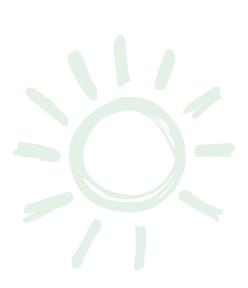


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## ✓ 6 BONUS Activity Pages! Additional worksheets for your students

- Go to our website: www.classroomcompletepress.com/bonus
- Enter item CC4100
- Enter pass code CC4100D

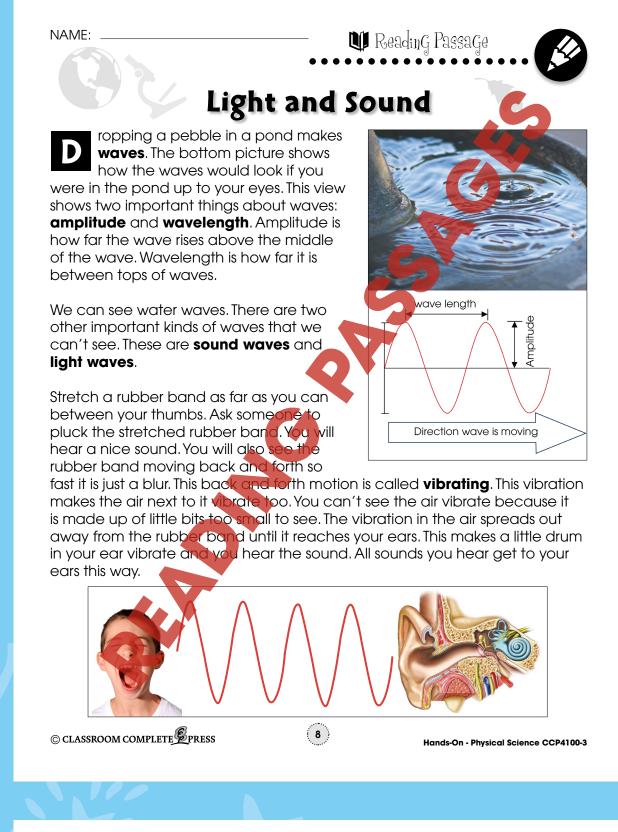


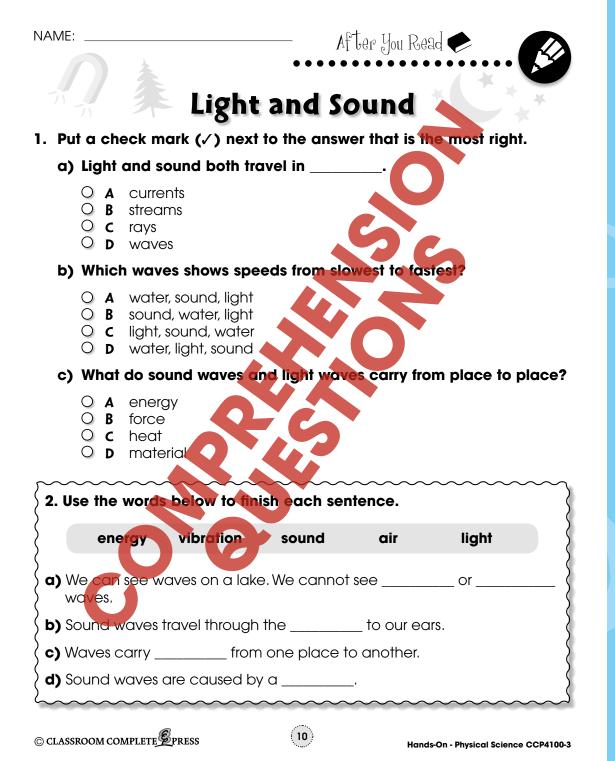


C		• • •	7	
			Light and Sound	
<b>~^</b>	<b>7</b> 447	<b>7</b> ∢∆'	V4AV4V4AV4AV4AV4AV4AV4AV4 **************	
	1. Ci	rcle	if the sentence is True or if it is False.	
À	T	F	a) Light travels in waves.	
<b>A</b>	T	F	b) Sound travels out from our ears	
	T	F	c) An apple is red because it reflects red light.	
<b>4</b>	T	F	d) If something is vibrating, it must be not.	
¥	T	F	e) Sound cannot travel through air.	
<b>A</b>	T	F	f) Reflection is a kind of bouncing.	
1	T	F	g) Light travels out from our eyes.	
<b>4</b>	T	F	h) Sound travels in waves	
		<b>\</b>	\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\	
•	<b>.</b>			
			eck mark (/) next to the answer that is the most right.	
	a) II		eight of a wave is called its	
	C	) A ) B	amplitude reflection	
	C		vibration wavelength	
		_	light bounces off a mirror, it is called a(n)	
	<b></b>	) A	amplitude	
	Ö	В	reflection	
	C	) C	vibration wavelength	
			<u>-</u>	
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NAME: \_

Before You Read





	After you Read	NAME:	
<b>9</b>			
	Light :	and Sound	
	the questions in full so		
a) Some acros	one hits a bell and it rir s the room.	ngs. Explain how yo	u near the ringing from
	n what happens to ligl ow, a mirror, a yellow shi		ach of these things: a
Extension	& Application		
Get into kinds of volume to help y	groups and use the growaves are the same are	aphic organizer on nd how they are dif	page 12. Show how ferent. Use the interne
Make sm below.	nall models of each typ	e with your group.	Describe your models
) Water: _			
) Sound: _			
) Light:			

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### Electric and Magnetic Forces in Action

#### Part 1. Electric Force

You will see how electric forces push and pull. This is what you will need:

- a roll of clear plastic tape
- a balloon
- something made of wool or a cat

#### This is what you do:

- 1. Tear off two pieces of tape about as long as your hand. Stick them to a desk or tabletop. Smooth them down. Leave one end free so you can peel them off.
- 2. Peel one strip of tape off with your right hand. Peel the other strip off with your
- 3. Let the strips hang down. Bring them slowly toward each other. Watch what happens.
- 4. Blow up the balloon and tie it si
- 5. Rub the balloon on the wool or the cat.
- 6. Try to stick the balloon to the wall or the ceilir

Which things had the same charge (both positive or both negative)? Which things had different charges (one positive the other negative)?

#### Part 2. Magnetic Force

You will see how the same poles on a magnet push each other away. You will also see how different poles pull each other together. This is what you will need:

- three bar magnets—bar magnets look like this:
- a glass or plastic tube that the magnets will just fit into.

#### This is what you do:

- 1. Hold the tube up on end Drop the magnets in one at a time.
- **2.** What do you see? Are any of the magnets "floating"?
- **3.** Try putting the magnets in different ways. Try to find a way that makes the top two magnets float above the others.

What does it mean when the top magnets float? What does it tell you about the magnet poles of the different magnets?

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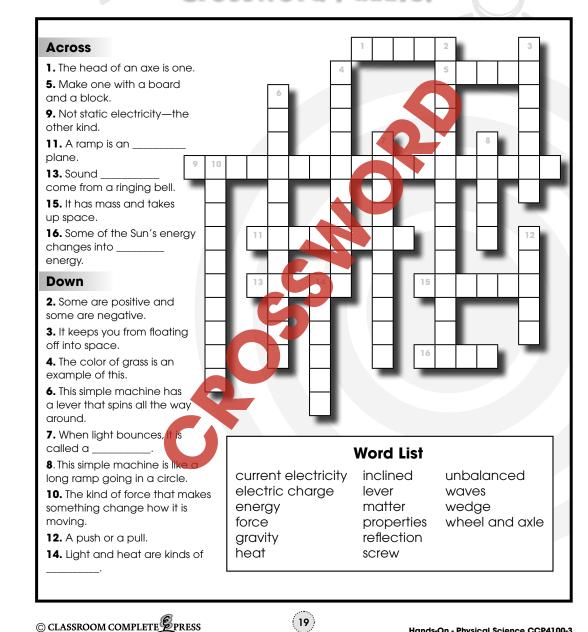


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### After You Read

### **Crossword Puzzle!**







NAME:

# Comprehension Quiz

#### Part A Circle if the sentence is TRUE or if it is FALSE.

- Gravity only pulls on things sitting on the ground.
- If something is moving in a straight line without changing speed, the forces on that balanced.
- Light is a kind of energy.
- We cannot see sound waves.
- Light travels faster than sound.
- Lightning is a kind of current electricity.
- Particles in ice can change places with each other.

#### Part B

Put a check mark ( $\checkmark$ ) next to the answer that is the most right.

- a) Which two simple machines could you make with just a board and a brick?
  - O A A pulley and a lever.
  - O B A leverand an inclined plane.
  - O **c** An inclined plane and a screw.
  - O **D** A screw and a wheel and axle.
- b) What do we know about the forces acting on something that is falling without changing its speed?
  - O A No forces are acting on it.
  - O B Only gravity is acting on it.
  - O **c** There is no force of air resistance.
  - O **D** The forces acting on it are balanced.

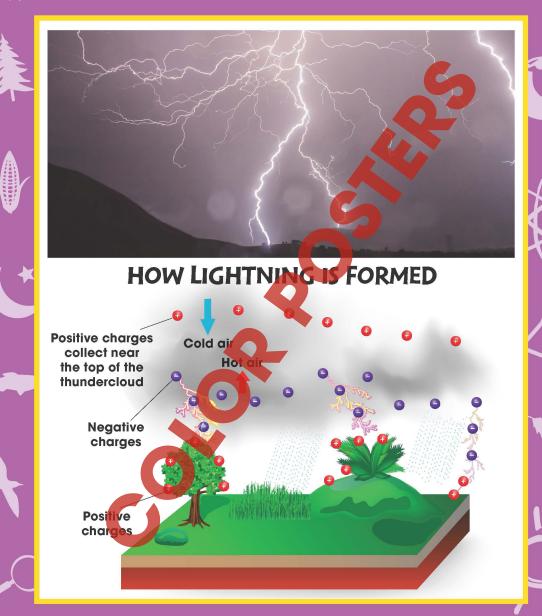




**SUBTOTAL:** 

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# **How Lightning Works**



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NAME: After You Read •
Light and Sound
1. Put a check mark ( $\checkmark$ ) next to the answer that is the most right.
a) Light and sound both travel in
<ul> <li>A currents</li> <li>B streams</li> <li>C rays</li> <li>D waves</li> </ul>
b) Which waves shows speeds from slowest to fastest?
<ul> <li>A water, sound, light</li> <li>B sound, water, light</li> <li>C light, sound, water</li> <li>D water, light, sound</li> </ul>
c) What do sound waves and light waves carry from place to place?
O A energy O B force O C heat O D material
2. Use the words below to finish each sentence.  energy vibration sound air light
a) We can see waves on a lake. We cannot see or
<b>b)</b> Sound waves travel through the to our ears.
c) Waves carry from one place to another.
d) Sound waves are caused by a
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a) 🕜 D

b) 🕜 A

a) The bell vibrates. This causes the air around it to vibrate. The vibrations travel through the air and enter our ear. A little drum in our ear

3.

vibrates.

**b)** Light passes through a window. Light bounces off a mirror. Only yellow light bounces off the shirt.

c) ② A

a) sound, light

**b)** air

c) energy

**a)** Water: (any body of water with waves) move up and down.

your ears. Something is vibrating.

c) Light: (any light source) it is bright. It

(11)

You can hear it with

ER KEY

goes in a straight line.