



TEACHER GUIDE

Assessment Rubric	4
• How Is Our Resource Organized?	5
• STEAM & Next Generation Science	6
• Vocabulary	6

Contents



STUDENT HANDOUTS

• Re	eading Comprehension			
	1. Force and Motion	•••••		
	2. Energy	••••		
	3. Light and Sound	••••		
	4. Electricity and Magnetism	. 7		
	5. Matter and Materials			
	6. Simple Machines	••••		
• Ha	ands-on Experiments	12		
• Cı	rossword	18		
• W	Vord Search	19		
• Comprehension Quiz 20				



COLOR MINI POSTERS 24

6 BONUS Activity Pages! Additional worksheets for your students

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





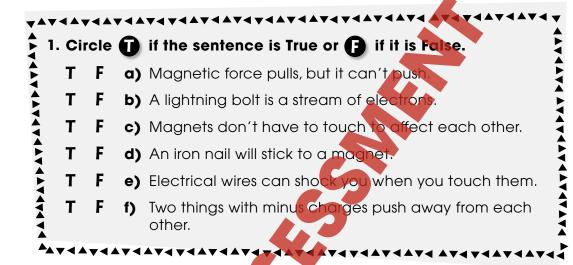


Hands-On - Physical Science CCP4100-4



NAME: 🔰 Before You Read

Electricity and Magnetism



2. Use the words below to finish each sentence.

north pole south pole negative positive push electrical spark pull	
a) A flash of lightning is like a(n), only bigger.	
b) Magnetic force can or	
c) The ends of a magnet are called the and the	
d) A(n) charge connects to a negative charge.	
e) A(n) charge is pushed away from a negative charge.	

© CLASSROOM COMPLETE

(7)

Hands-On - Physical Science CCP4100-4



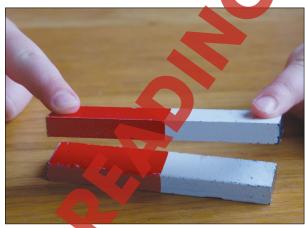


Electricity and Magnetism

lot of people didn't like Isaac Newton's ideas about gravity. He said gravity could pull on something across empty space without touching it. That was just too weird for some people. It sounded like magic.

But it's true. The Moon and the Earth are thousands of miles (kilometers) apart. If Earth's gravity didn't pull on the Moon, the Moon would just float away. There are two other forces that act without touching. They are **electric force** and magnetic force. The force of gravity only pulls. Electric and magnetic forces can push and pull.





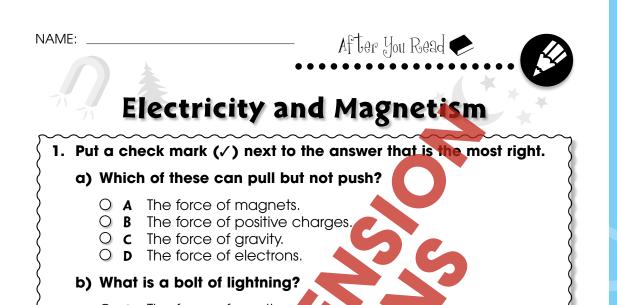
Do you have magnets stuck to your fridge? This is because the outside of a fridge is made of iron. Iron is a type of metal. All things made of iron are pulled toward a magnet. Two magnets can push or pull each other. One end of a magnet is called the **north pole**. The other is called the **south pole**. The north pole of one magnet is pulled to the south pole of another. Two magnet poles that are the same

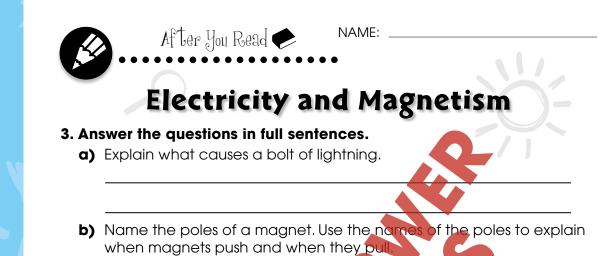
push each other away. So, the north pole of one magnet pushes away the north pole of another.

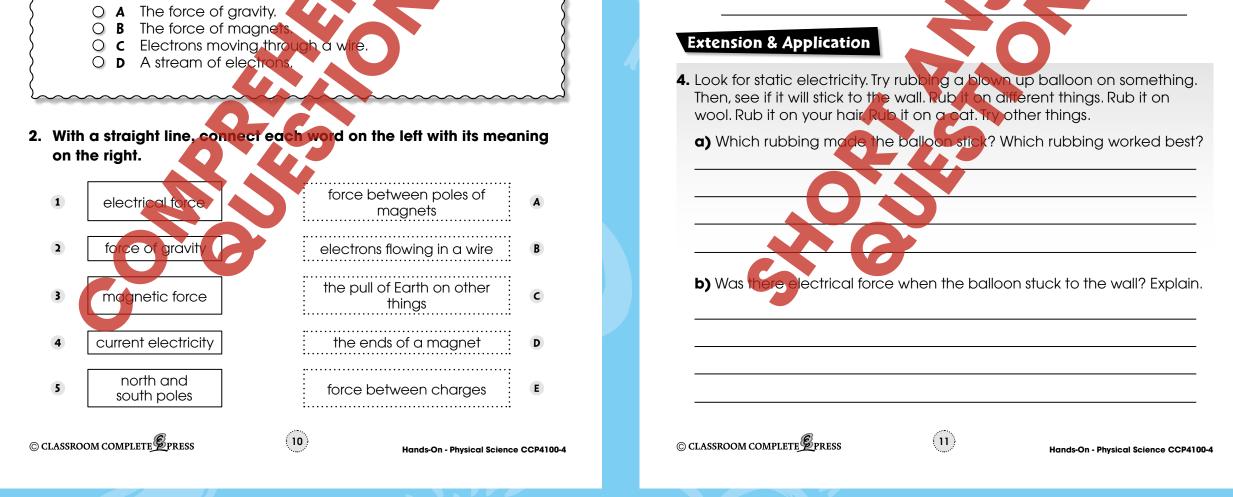
8

© CLASSROOM COMPLETE

Hands-On - Physical Science CCP4100-4









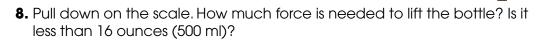
Getting a Little Help From Simple Machines

This is what you will need:

- A long flat board and a short square block. They should look like this:
- About 10 feet (3 meters) of string.
- A one-pint (500 ml) plastic water bottle. The bottle will have one pint or 16 oz. (500 ml) written on the label.
- A spring scale. The scale should be marked in punces (ml). It should go up to at least 16 ounces (500 ml).

This is what you do:

- Tie a small loop of string around the neck of the bottle.
 Put the hook on the scale through the loop and lift the bottle. Read the weight of the bottle on the scale. Change the water level in the bottle until the weight is 16 ounces (500 ml).
- 3. Making an inclined plane: Put the small block under one end of the board.
- 4. Lay the bottle on the low end. Hook the scale hook through the loop of string on the bottle.
- 5. Pull the bottle up the inclined plane.6. Read the scale to see how much force is needed to move the bottle.7. Making a lever: Put the board,
- block, bottle, and scale on a table top like this:



15

© CLASSROOM COMPLETE

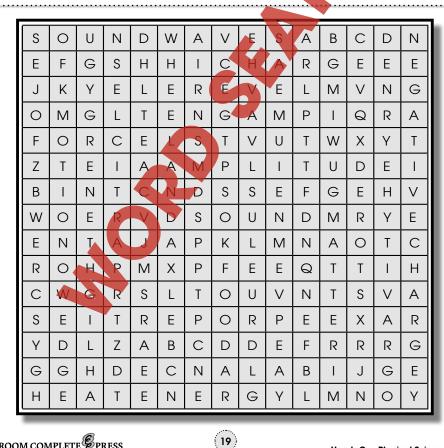
Hands-On - Physical Science CCP4100-4



Find all of the words in the Word Search. Words are written across, up, down, on an angle, and some are even written backwards.

NAME:

	heat energy	negative charge	e stored
lanced	lever	particles	
arge	light energy	positive	wedge
ərgy	magnet	properties	wheel and axle
bd	mass	screw	
ce	matter	sound	
avity	motion	sound waves	
	nplitude lanced arge ergy od ce avity	lanced lever arge light energy ergy magnet od mass ce matter	lanced lever particles arge light energy positive ergy magnet properties od mass screw ce matter sound



© CLASSROOM COMPLETE

Hands-On - Physical Science CCP4100-4



wavelength means. Explain what amplitude means.

