## Contents

@ TEACHER GUIDE

- Assessment Rubric ..... 4
- How Is Our Resource Organized? ..... 5
- Bloom's Taxonomy for Reading Comprehension ..... 6
- Vocabulary ..... 6
- STUDENT HANDOUTS
- Reading Comprehension

1. What Is Force?
2. Kinds of Force
3. More Than One Force
4. Balanced E Unbalanced Forces
5. Force E Mass
6. Gravity
7. Other Forces That Act Without Touching ..... 7

- Hands-on Activities ..... 12
- Crossword ..... 16
- Word Search ..... 17
- Comprehension Quiz ..... 18
ETV EASY-MARKING ${ }^{\text {TM }}$ ANSWER KEY ..... 20
MINI POSTERS ..... 22


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- Click on item CC4508 - Force
- Enter pass code CC4508D



1. Put a check mark ( $\checkmark$ ) next to the answer that is most correct.
a) Which forces can either attract (pull) or repel (push)
? $\mathbf{A}$ magnetic and electrostatic
B electrostatic and gravity
b) Whe friction and magnetic
b) Wich kind of metal is attracted to a magnet?

## 


b) Which kind of metal is attracted to a magnet?

A aluminum
$\begin{array}{ll}\bigcirc & \text { в copper } \\ \bigcirc & \text { c iron }\end{array}$
$\bigcirc$ d silver
c) What are the poles of a magnet called?

O a left and right
O B plus and minus
O C north and south
O metal and nonmetal

## 2. Circle the word True if the statement is true. Circle the word

 False if it is false.a) The Earth is a large magnet.

True

c) Things made of iron are attracted to magnets.

## False

d) A magnetcan pick something up off the ground without touching it.

True False
e) Electrical charges can attract each other but cannot repel.

True False
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7

NAME:


## That Act Without Touching

1. Tell which force goes with each sentence. In the spaces to the left, write $\mathbf{G}$ if it is about GRAVITY. Write $\mathbf{M}$ if it is about MAGNETIC force. Write $\mathbf{E}$ if it is about ELECTROSTATIC force.

2. In the pictures below the balls on strings have electrical charges. The bars are magnets that have been dro

## ropped

tubes.

## Writit the sign for the charges on the balls that Write - for a NEGATIVE Charge. Write - for a NEGATIVE <br> Show the names of the <br> agnet poles that are not already shown. Write $\mathbf{N}$ on the NORTH POLE ends ofthe magnets. Write S on the SOUTH POLE ends of the magnets.




9

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Force CCP4508-7

## 

## Activity Three

## Balanced and Unbalanced Forces

In this activity you will see how motion changes when forces are unbalanced. Thisis when the net force is notzero. You will also see that motion does not change when ferces are balanced. This is when the net force is zero. The two forces you will combine to make the net force are the force of gravity and the buoyant force.
The BUOYANT FORCE is the force that pushes up on objects that are under water. When the buoyant force is greater than the force of gravity, the object willt float. This is why wood floats. FOR THIS ACTIVITY, you will need:

- A pot of water
- A spring scale
- Several of these objects: $\qquad$

a piece of wood a hollow ball, like a table tennis ball or a tennis ball an egg a stone
a metal object, like a pair of pli
- A spring scale looks like this:


## STEPS:



1. Put each of the objects in the pot of water, hold the object on the bottom, and let go. 2. Does it float or sink?

- If it floats, how
does it move to the top?
- If it sinks, ho

ed of rising or sinking tell you about the direction and amount of
- What does - On which ob
.

3. Tie a string to each of the objects that sank.
4. Weigh them on the spring scale.
5. Now weighthem again while they are hanging in the water.
s the weight different in water?

- How much buoyant force is acting on the object?
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Comprehension Quiz

## Part C

Answer the questions in complete sentences.

1. Name two forces acting on a falling object. Tell the direction in which each force

2. When an arrow is used to show a force, what two things does the arrow show about the force?
3. Tell what a contact force is. Give two examples of contact forces.
 forces that are in balance.

4. Name the two poles of a magnet. When do two poles attract each other? When do two poles repel each other?

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Crossword Puzzle!

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Answer the questions in complete sentences.
3. What are the names of the electrostatic charges? Which pairs repel? Which pairs attract?
4. What are the names of the magnetic poles? Which pairs repel? Which pairs attract? What else is attracted to magnets besides other magnets?


## Extension \& Application

5. a) Use the chart on the next page to show what you have learned about the forces

b) Which of the forces is a/ways pulling on you?
c) Which of the forces helps you walk up a steep hill?
d) Which force could be used to separate steel cans from aluminum cans?
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