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FREE! 6 Bonus Activities!3 EASY STEPS to receive your 6 Bonus Activities!- Go to our website:www.classroomcompletepress.com \bonus
- Click on item CC4509 - Motion
- Enter pass code CC4509D


NAME:


What Is Motion?

1. Write each word beside its meaning. Use a dictionary to help you.

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After you R
NAME:

## What Is Motion?

1. Put a check mark ( $\checkmark$ ) next to the answer that is most correct.
a) Which of these is a speed?

| O | a | 50 miles |
| :--- | :--- | :--- |
| O | B | 50 hours |
| O | C | 50 miles per hour |
| O | d | 50 hours per mile |

b) Which word best describes the motion of a falling rock?

O a accelerating
O B decelerating
O c rotating
O D vibrating

c) What do we know about something that has steady acceleration?

2. Circle the words that are kinds of motion.
position
acceleration deceleration
rotation
vibration
distance
time

## What Is Motion?

Bo far we have been talking about steady motion in asstro ine. There are other kinds of motion. A moving thing can be slowing down or it can be speeding up. A car slow as it comes to a stop sign and then speeds up as it leaves the stop sign. Motion can change direction too, as when a car goes around a corner.
Speeding up is called acceleration. Slowing down is called deceleration. Changing direction is also a kind of acceleration. Spinning is one way of changing direction. Spinning is called rotation. Things that move back and forth are said to be vibrating. Guitar strings make sound by vibrating very fast.


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Motion CCP4509.1

## Answer the questions in complete sentences.

3. Tell what rotation means, and describe something that is rotating.
4. Tell what vibration means, and describe something that is vibratin
5. In your own words, tell what motion is.
6. What is the difference between acceleration and deceleration? Give one example of

7. A car travels 200 miles in 4 hours at a constant speed. What is the speed of the car in miles per hour? St

8. Jordon throws a ball 30 feet into the air, and the ball falls back to the ground. Use the words "acceleration" and "deceleration" to tell how the ball changed its motion between the time Jordon threw it and the time it hit the ground.
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## 粗 Hands-On Activity +1

Comparing Speed of Animals

I$n$ this activity, you will compare the speeds of animals. The speeds of most of the common animals have been measured. You will choose some different animals and then research how fast each can move. You may look for your information on the Internet, or ask your teacher to suggest some books that will help.
Begin by deciding which animals to research. Here are some inferesting ways to choose your animals:

1. You could find which animal is FASTEST in each class of animals: fish, reptiles, amphibians, birds, and mammals. Make some guesses before you start to gather information. Which class has the speed recofd? Try Dutting them in order of fastest class to slowest class.
2. You could compare several animals of ONE class with each other. If you choose mammals, look for the speed of the sloth and the cheetah. If you choose fish, look for the speed of the sailfish. Againetry to guess before you start which animals will be fastest and slowest and what their speeds will be.
3. So far the suggestions have been for vertebrates. You could also compare the speeds of some common INVERTEBRATES, like earthworms, snails, squid, and ants. You could also just compare different kinds of INSECTS.
Before you start your search, make a table like the one below in which to record your speeds. Have one column for animals' names and one column for their speeds.


When you have found all your speeds, make a bar chart to show how they compare. How did youth guesses compare to what you found?

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After You Read
Crossword Puzzle!


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

1. What is a measure of the height of a wave on water?
$\bigcirc$ A amplitude
○ B frequency
$\bigcirc$ D wavelength
2. Which kind of motion does a rock have just after it dropped from a high bridge? $\bigcirc$ A constant speed
〇 B constant velocity
C constant acceleration
O D constant deceleration
3. Which two things could you graph to show speed?

A force and mass
$\bigcirc$ B velocity and time
O c distance and time
O D mass and distance
NAME:

## Comprehension Quiz

## Part A

: Circlethe word True if the statement is true. Circlethe word False
: if it is false.

1) Speed is time divided by distance.
2) Velocity is speed in a given direction.

## True False

3) Things in motion decelerate because of the force of frictio
4) All sounds come from something that is vibrating.
True

- 5) The slope of a distance and time graph is sp
-6) The more mass a thing has, the morea force will change its motion
- 7) Sound can trave acise
empty space.


Part B


## Answer the questions in complete sentences.

3. Tell what rotation means, and describe something that is rotating.
4. Tell what vibration means, and describe something that is vibrating.
5. In your own words, tell what motion is
6. What is the difference between acceleration and deceleration? Give one example of each.

7. Jordon throws a ball 30 feet into the air, and the ball falls back to the ground. Use the words "acceleration" and "deceleration" to tell how the ball changed its motion between the time Jordon threw it and the time it hit the ground
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