



TEACHER GUIDE

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STUDENT HANDOUTS

| Reading Comprehension |
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Properties of Matter CCP4504-3

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Physical Properties of Matter

1. Complete each sentence with a word from the list. Use a dictionary to help you. Six words will be left over.

| weight | mass | density | transparent opaq | ue hardness |
|---------------|----------------------|-------------------|------------------|-------------|
| volume | e melting point | temperature | heai color | |
| a) Lig | ght does not pass th | rough objects tha | t are | |
| b) Me | ass divided by volum | ne equals | | |



W Reading Passage NAME:

Physical Properties of Matter

|--|

e describe materials by their **properties.** Some pl properties tell us how much material is present.

Volume tells us how much space a material takes up. In some countries volume is measured in pints, quarts, and gallons. In other countries volume is measured in liters and milliliters. For example, a quart of milk has a little less volume than a liter of milk.

You learned earlier that mass is a measure of how mu matter is in something. Mass is measured in grams or

kilograms. In some countries, mass is measured in pounds ounces. The mass in every object pulls on the mass in every other

object with a force called **gravity**. The more mass the objects have, the harder they pull on each other.

The planet Earth has a lot of mass. The force of Earth's gravity pulls down hard on all the things on its surface. Gravity keeps them from floating off into space. The strength of Earth's pull on something is the thing's **weight**. The more mass an object has, the harder Earth pulls on it, and the more weight it has.

The moon has less mass than Earth. If you went to the moon, you would have **less** weight because the moon would not pull as hard on your mass. Your mass on the moon would be **the same** because you would still have the same amount of matter in your body.

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When you jump into the air, you are always pulled back to the Earth by GRAVITY. You can feel the pull of gravity between yourself and the Earth. Explain why you CANNOT feel the pull of gravity between yourself and another person.

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- c) The temperature at which a material changes from a solid to a liquid is called its ______.
- d) The force of the Earth pulling on your mass is you
- e) Adding heat to something makes its particles move faster. ______ is a measure of how fast the particles are moving.

2. Circle 🕤 if the statement is TRUE or 🕞 if it is FALSE.

- T F a) All light passes through things that are translucent.
 T F b) If you went to the moon, your weight would not change.
 T F c) If you squeezed a balloon and made it smaller, the density of the air inside would become greater.
 T F d) Volume can be measured in quarts or liters.
 T F e) Sandpaper and glass have the same texture.
 T F the Gravity is the force of attraction between the volume of one thing
 - f) Gravity is the force of attraction between the volume of one thing and the volume of another thing.

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Extensions & Applications

5. Measure or describe as many PROPERTIES as you can for an egg and for a glass of water.

Part A

For the egg, describe the properties color texture, hardness, and shape. Also tell whether the egg is transparent, translucent, opaque. Tell whether the water is transparent, translucent, opaque.

Part B

For the next part, you will need a thermometer, a measuring cup, a kitchen stove or hot plate, and a scale or balance. If you cannot get these tools, describe how you would use them.

Measure the **temperature** of the water. Measure the **boiling point** of the water or tell how you would measure it.

Use the measuring cup to measure the volume of the water. Use the measuring cup *and* the water to measure the volume of the egg.

Use the balance to measure the mass of the egg. How would you measure the mass of the water?

What is the density of the water? What is the density of the egg?

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| NAME: Physical Pr | After You Read | ter | * | |
|---|--|-------------------|---|-------|
| 3. What does the word opaque me | ean? | | 3. | Answe |
| 4. Explain what the density of an ob | pject tells us about the particles the o | bject is made of. | Light does not pass through it. | |
| | ~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~ | } | 4. Density tells how closely the particles are packed together. | |

Extensions & Applications

5. Measure or describe as many PROPERTIES as you can for an egg and for a glass of water.

Part A

For the egg, describe the properties color, texture, hardness, and shape. Also tell whether the egg is transparent, translucent, opaque. Tell whether the water is transparent, translucent, opaque.



Measure the **temperature** of the water. Measure the **boiling point** of the water or tell how you would measure it.

Use the measuring cup to measure the volume of the water. Use the measuring cup and the water to measure the volume of the egg.

Use the balance to measure the mass of the egg. How would you measure the mass of the water?

What is the density of the water? What is the density of the egg?

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5.

A. No

Answers will vary



