

Matter Chapter 1 Test

The Properties of Matter

MULTIPLE CHOICE

Circle the letter of the best answer for each question.

1. What has mass and takes up space?
 - a. weight
 - b. volume
 - c. space
 - d. matter
2. How does a physical change differ from a chemical change?
 - a. New properties of the matter are observed.
 - b. New materials are produced.
 - c. The change always involves heat or light.
 - d. The composition of the matter is unchanged.
3. Which of the following would be the easiest to start moving?
 - a. a cart loaded with two potatoes
 - b. an empty cart with no potatoes
 - c. a cart loaded with many sacks of potatoes
 - d. a cart with one potato
4. Which of the following signs does NOT indicate that a chemical change has happened?
 - a. only a change in state
 - b. change in color or odor
 - c. foaming or bubbling
 - d. production of heat or light

Chapter Test C *continued*

MATCHING

Read the description. Then, draw a line from the dot to the matching word.

- | | | |
|---|---|--------------------|
| 5. aluminum made into thin sheets of foil | ● | a. ductility |
| 6. an ice cube made of solid water | ● | b. reactivity |
| 7. rust forming on metals | ● | c. state of matter |
| 8. copper pulled into thin wires | ● | d. malleability |
-
- | | | |
|---|---|-----------------|
| 9. flavored drink mix dissolving in water | ● | a. density |
| 10. objects floating or sinking in water | ● | b. solubility |
| 11. wood burning in a fireplace | ● | c. odor |
| 12. a flower smelling sweet | ● | d. flammability |

Chapter Test C *continued***FILL-IN-THE-BLANK**

Read the words in the box. Read the sentences. **Fill in each blank** with the word or phrase that best completes each sentence.

mass	volume
property	change

13. Things with _____ cannot share the same place at the same time.
14. A chemical _____ describes which changes are possible for a substance.
15. A chemical _____ describes the process by which new substances are formed.
16. The amount of matter in an object is its _____

Read the words in the box. Read the sentences. **Fill in each blank** with the word or phrase that best completes each sentence.

milliliters	weight
kilogram	inertia

17. The SI unit for mass is the _____
18. If you know an object's mass, you can figure out its _____ on Earth.
19. The tendency of an object to resist a change in its motion is _____
20. You could use _____ to measure the volume of a soft drink can.

Chapter Test C *continued***INTERPRETING GRAPHICS**

Use the table of common densities below to answer questions 21 and 22. **Circle the letter** of the best answer for each question.

Table 1 Densities of Common Substances*

Substance	Density (g/cm ³)	Substance	Density (g/cm ³)
Helium (gas)	0.0001663	Zinc (solid)	7.13
Oxygen (gas)	0.001331	Silver (solid)	10.50
Water (liquid)	1.00	Lead (solid)	11.35
Pyrite (solid)	5.02	Mercury (liquid)	13.55

*at 20°C and 1.0 atm

21. Look at the table. Which substance is the least dense?
- a. lead
 - b. helium
 - c. oxygen
 - d. pyrite
22. Look at the table. Which two substances are the densest?
- a. oxygen and water
 - b. silver and mercury
 - c. water and pyrite
 - d. mercury and lead