

Name _____ Date _____ Class _____

CHAPTER 3 STUDY GUIDE FOR CONTENT MASTERY

Matter—Properties and Changes

Section 3.1 Properties of Matter

In your textbook, read about physical properties and chemical properties of matter.

Use each of the terms below just once to complete the passage.

chemical density	mass properties	physical substance
---------------------	--------------------	-----------------------

Matter is anything with (1) mass and volume. A (2) substance is a form of matter with a uniform and unchanging composition. Substances have specific, unchanging (3) properties that can be observed. Substances have both physical and chemical properties. (4) Physical properties can be observed without changing a substance's chemical composition. Color, hardness, and (5) density are examples. Other properties cannot be observed without changing the composition of a substance. These are called (6) chemical properties. An example is the tendency of iron to form rust when exposed to air.

Label each property as either physical or chemical.

- physical 7. Chemical formula H_2O
- chemical 8. Irons react vigorously when exposed to moist air
- chemical 9. Remains unchanged when in the presence of nitrogen
- physical 10. Colorless
- physical 11. Solid at normal temperatures and pressures
- chemical 12. Ability to combine with another substance
- physical 13. Melting point
- physical 14. Liquid at normal temperatures and pressures
- physical 15. Boiling point is $100^\circ C$
- physical 16. Conducts electricity
- physical 17. Density is $\frac{1}{8} \frac{g}{cm^3}$

Name _____ Date _____ Class _____

CHAPTER 3 STUDY GUIDE FOR CONTENT MASTERY

Section 3.1 continued

In your textbook, read about states of matter.

Label each drawing with one of these words: solid, liquid, gas.



For each statement below, write true or false.

- true 21. All matter that we encounter in everyday life exists as one of these physical forms.
- true 22. A solid has definite shape and volume.
- false 23. A liquid has a definite shape and takes on the volume of its container.
- true 24. A gas has both the shape and the volume of its container.
- false 25. The particles in a gas cannot be compressed into a smaller volume.
- false 26. Liquids tend to contract when heated.
- false 27. The particles in a solid are spaced far apart.
- false 28. The words gas and vapor can be used interchangeably.

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