

NAME _____ DATE: 5-22-20

SCIENCE 4 EXAM CHAPTER 11

Read each question carefully. Please write neatly. Good luck!

1. Which of the following does NOT describe a liquid?
 - a. Definite volume
 - b. Definite shape
 - c. Particles are close together
 - d. Particles can roll over each other

2. Which of the following IS a description of the particles in a gas?
 - a. Particles packed close together
 - b. Particles move slowly
 - c. Definite volume
 - d. Indefinite shape

3. Which of the following describes the temperature at which a solid turns into a liquid?
 - a. Melting point
 - b. Boiling point

4. A mixture in which one substance is dissolved in another is called:
 - a. A solute
 - b. A solvent
 - c. Solubility
 - d. Solution

5. Each of the following is an example of a physical change EXCEPT:
 - a. Tearing
 - b. Crushing
 - c. Burning
 - d. Boiling

6. The amount of space an object takes up is called its:
 - a. Mass
 - b. Volume
 - c. Weight
 - d. Matter

7. The "U" that a liquid forms in a graduated cylinder is called the:
- Bend
 - Middle
 - Meniscus
 - None of the above
8. You make a glass of chocolate milk. In this mixture, the _____ is the solvent and the _____ is the solute.
9. TRUE or FALSE: Since sand does not dissolve in water, sand is said to be soluble.
10. Give any TWO different examples of a chemical change. _____ and _____.
11. Oil floats on water. Is oil more dense or less dense than water? _____ dense
12. TRUE or FALSE: After you weigh an object on the triple beam balance, you record its mass in milliliters (mL).
13. Which of the following would be used to measure the volume of a liquid in the laboratory?
- Metric ruler
 - Balance
 - Funnel
 - Graduated cylinder
14. The building blocks of matter are called _____.
15. The amount of matter in an object is the definition of _____.
16. You have a 12-pound bowling ball. If you change the location of the bowling ball, will its mass change? _____ Explain why or why not.

17. TRUE or FALSE: Density is the comparison of the mass of an object to its volume.

18. Which of the following is an example of a phase change?

- a. A tree is cut down
- b. An ice cube melts
- c. Paper is cut
- d. An egg is fried

19. A physical blend of two or more substances, where the properties of each remain unchanged (like a tossed salad), is called a _____.

20. Which of the following would change if you moved a brick from the Earth to the Moon?

- a. Density
- b. Volume
- c. Weight
- d. Mass

21. Give TWO different physical properties of the lab tables in your science room.

_____ and _____

22. Anything that surrounds you which has mass and takes up space is called

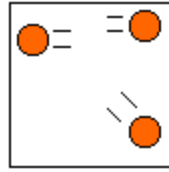
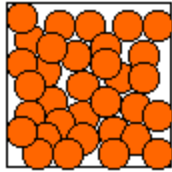
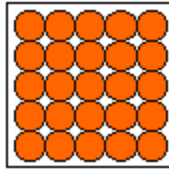
_____.

23. The _____ Table provides information about elements.

24. The density of pure water is:

- a. Less than 1 gram/mL
- b. More than 1 gram/mL
- c. Equal to 1 gram/mL
- d. None of the above

25. Look carefully at the illustrations below.



What do these three illustrations show?

- a. Different gases
- b. States of solids
- c. States of matter
- d. Different liquids

26. Look carefully at the follow illustrations.

Put a **GREEN** circle around the **physical changes** and a **RED** box around the **chemical changes**.



Frying eggs



Toast



Cracking eggs



Boiling Water



Fresh Lemonade



Baking a Cake



Slicing Bread



Lighting a Match



Roasting Marshmallows



Mowing the Lawn



Fireworks



Digesting Food



Rusty Nails



Ice Melting



Glass Breaking

IF YOU CAN'T MAKE THE GREEN CIRCLES OR THE RED BOXES, FILL IN THE LIST BELOW.

- | | |
|--------------------------|-------|
| a. Frying eggs | _____ |
| b. Toast | _____ |
| c. Cracking eggs | _____ |
| d. Boiling water | _____ |
| e. Fresh lemonade | _____ |
| f. Baking a cake | _____ |
| g. Slicing bread | _____ |
| h. Lighting a match | _____ |
| i. Roasting marshmallows | _____ |
| j. Mowing the lawn | _____ |
| k. Fireworks | _____ |
| l. Digesting food | _____ |
| m. Rusty nails | _____ |
| n. Ice melting | _____ |
| o. Glass breaking | _____ |