

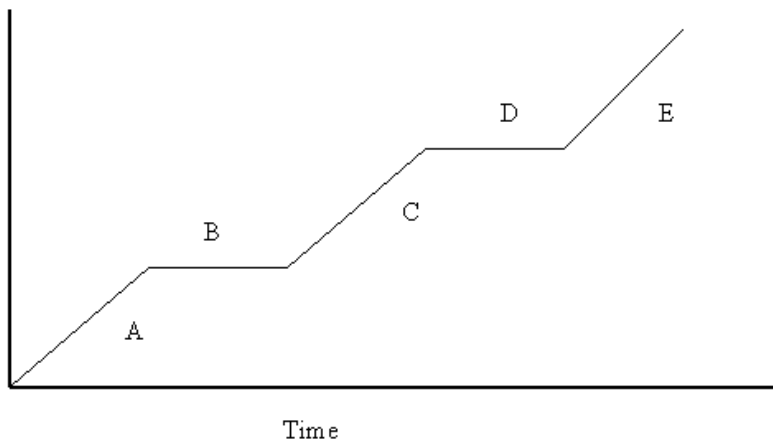
Unit 7 Matter Chapters 2 & 3

ID:B

Do Not Write on This Test. Put all answers on the sheet provided.

Matching

Temperature

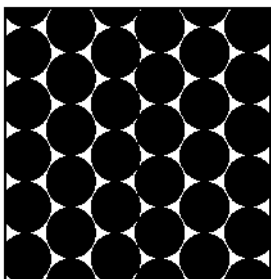


Match the descriptions below with the diagram above

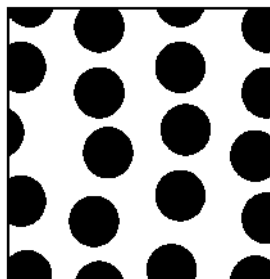
1. freezing point
2. condensation point
3. the state with the highest molecular movement
4. solid state
5. boiling point
6. Liquid state
7. the state with the lowest molecular movement
8. melting point
9. gas state

Multiple Choice Identify the letter of the choice that best completes the statement or answers the question.

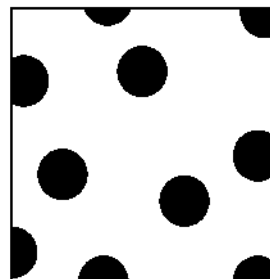
10. Matter that has a definite volume and a definite shape is a ____.
a. gas b. solid c. liquid d. plasma
11. If you move a substance from one container to another and its volume changes, the substance is a
a. solution. b. gas. c. liquid. d. solid.
12. The particles that make up a solid move ____ than do the particles that make up a gas.
a. more quickly and farther c. more quickly
b. more slowly d. in the same way



Substance A



Substance B



Substance C

Figure 3-1

13. Which substance in figure 3-1 is a liquid?
a. Substance A b. Substance B c. Substance C d. all of the above

14. In which of the substances in Figure 3-1 are the forces of attraction among the particles so weak that they can be ignored under ordinary conditions?
 a. Substance A b. Substance B c. Substance C d. all of the above
15. Which substance in figure 3-1 is a solid?
 a. Substance A b. Substance B c. Substance C d. all of the above

Melting and Boiling Points of Some Substances		
Substance	Melting Point	Boiling Point
Hydrogen	-259.3°C	-252.9°C
Nitrogen	-210.0°C	-195.8°C
Acetic Acid	16.6°C	117.9°C
Gold	1064.2°C	2856°C

Figure 2-1

16. Based on the information in Figure 2-1, which substances would be a gas at 0°C?
 a. Acetic Acid b. Nitrogen c. Gold d. all of the above
17. Based on the information in Figure 2-1, the melting point of nitrogen is ____.
 a. -210.0°C b. 1064.2°C c. 16.6°C d. 117.9°C
18. Based on the information in Figure 2-1, the freezing point of acetic acid is ____.
 a. 16.6°C b. -210.0°C c. 117.9°C d. -195.8°C
19. Which of the following will cause a decrease in gas pressure in a closed container?
 a. lowering the temperature c. increasing the temperature
 b. reducing the volume d. both a and b
20. Which of the following is an example of a chemical change?
 a. a puddle of water evaporating c. pounding gold into a coin
 b. wood burning d. ice melting
21. According to ____, if you decrease the volume of a container of gas and hold the temperature constant, the pressure of the gas will increase.
 a. Lussac's law b. Boyle's law c. Bernoulli's principle d. Charles's law
22. Matter that has a definite volume but no definite shape is a
 a. gas. b. plasma. c. solid. d. liquid.
23. During a phase change, the temperature of a substance
 a. does not change. b. decreases. c. increases. d. increases or decreases.
24. Which state of matter will hold its shape without a container?
 a. plasma b. solid c. liquid d. gas
25. The phase change in which a substance changes from a solid to a gas or vapor without changing to a liquid first is
 a. vaporization. b. deposition. c. melting. d. sublimation.
26. Which of the following is an example of a physical change?
 a. burning wood into charcoal c. cooking an egg
 b. rusting iron d. dissolving salt in water
27. As the volume of a gas decreases, the pressure of the gas will ____ if the temperature remains the same.
 a. decrease b. remain the same c. increase d. contract
28. The change of a substance from a solid directly to a gas is called
 a. sublimation. b. evaporation. c. condensation. d. melting.
29. The smallest unit of a substance that behaves like the substance is
 a. a compound. b. an element. c. an atom. d. a molecule.
30. Which of the following is a chemical change?
 a. water breaking down into hydrogen and oxygen c. ice melting
 b. ice being carved d. water boiling

Unit 7 Matter Chapters 2 & 3 Answer Section

ID:B

MATCHING

1. ANS: B REF: SPS 5
2. ANS: D REF: SPS 5
3. ANS: E REF: SPS 5
4. ANS: A REF: SPS 5
5. ANS: D REF: SPS 5
6. ANS: C REF: SPS 5
7. ANS: A REF: SPS 5
8. ANS: B REF: SPS 5
9. ANS: E REF: SPS 5

MULTIPLE CHOICE

10. ANS: B SPS 5
11. ANS: B SPS 2
12. ANS: B SPS 5a
13. ANS: B SPS 5a
14. ANS: C SPS 5a
15. ANS: A SPS 5a
16. ANS: B SPS 5
17. ANS: A SPS 5
18. ANS: A SPS 5
19. ANS: A SPS 5b
20. ANS: B SPS 2
21. ANS: B SPS 5b
22. ANS: D SPS 5
23. ANS: A SPS 5a
24. ANS: B SPS 5
25. ANS: D SPS 5
26. ANS: D SPS 2
27. ANS: C SPS 5b
28. ANS: A SPS 5
29. ANS: D SPS 2
30. ANS: A SPS 2
31. ANS: C SPS 5b
32. ANS: C SPS 5
33. ANS: B SPS 2
34. ANS: B SPS 2
35. ANS: A SPS 5
36. ANS: B SPS 5
37. ANS: A SPS 5
38. ANS: D SPS 5b
39. ANS: A SPS 5a
40. ANS: D SPS 5b
41. ANS: C SPS 2
42. ANS: B SPS 2
43. ANS: B SPS 5
44. ANS: D SPS 2a
45. ANS: C SPS 5
46. ANS: D SPS 5