Inspire science grade 5

States of matter

الإجابات اسفل الصفحة

Select the best choices to answer the questions

- 1) The image shows the particles in a solid, a liquid, and a gas.
- Which option has the correct description of the particles?
 - A. mage 1 is a gas.
 - B. Image 2 is a gas
 - C. mage 3 is a solid.
 - D. Image 1 is a solid







- 2) which are examples of a liquid?
 - A. Milk
 - B. Oil
 - C. Ice
 - D. Water vapor
 - E. Steam
 - F. Salt
- 3) Which statement best describes the arrangement and movement of particles in a solid?





liquid

gaseous

- A. They are far apart from each other and move freely.
- B. They are tightly packed and vibrate in place
- C. they are held together by weak attractive forces so they can move freely
- D. they are close to each other and vibrate in place

4) which statement explains why water flows smoothly down this waterfall?



- A. the particles are far apart from each other and move freely in all directions
- B. The particles are tightly packed and move freely in all directions
- C. the particles are close together and slide past each other
- D. the particles are tightly packed and vibrate in place
- 5) A has a fixed shape and a fixed volume
 - A. solid
 - B. liquid
 - C. gas



6) A liquid has a fixed but does not have a fixed sha

- A. density
- B. mass
- C. volume

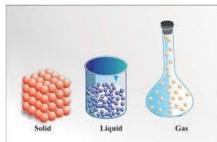


7) Which of the following statements is TRUE about gases?

- A. Gases have a fixed shape and a fixed volume.
- B. Gases have no fixed shape and no fixed volume.
- C. Gases have a fixed volume, but no fixed shape.



- 8) The particles in a solid are tightly packed together andin place
 - A. Vibrate
 - B. Slide
 - C. move freely



- 9) Liquid poured from a bottle into a glass is able to flow because the liquid does not have a definite shape.
 - A. TRUE
 - **B. FALSE**

10).....change both shape and volume when placed in different spaces or containers. They have no fixed shape and volume.

- A. Gases
- B. Solids
- C. liquids



- 11) In which state of matter are the particles farthest apart?
 - A. Solid
 - B. Plastic
 - C. Liquid
 - D. Gas
- 12) How are gases and liquids different?
 - A. Gases do not have a fixed volume. Liquids have a fixed volume.
 - B. Gases have a fixed shape. Liquids do not have a fixed shape.
 - C. Gases have a fixed volume. Liquids do not have a fixed volume.
 - D. Gases do not have a fixed shape. Liquids have a fixed shape.
- 13) Solids have.....shape and volume.
 - A. no fixed
 - B. an unfixed
 - C. a fixed
 - D. a changing



- 14) Rain is water in the.....state.
 - A. Liquid
 - **B.** Gaseous
 - C. solid



- 15) Ice is water in the.....state
 - A. Liquid
 - **B.** Gaseous
 - C. Solid



- 16) Vapor is water in the..... state
 - A. Liquid
 - B. solid
 - C. gaseous



- 17) Gas has.....
 - A. No fixed shape and volume
 - B. Fixed shape and volume
 - C. No fixed shape and fixed volume
- 18) Liquid has......
 - A. No fixed shape and volume
 - B. Fixed shape and volume
 - C. No fixed shape and fixed volume

19) Which statements about the book are TRUE?



- A. The particles are far apart from each other and move freely in all directions.
- B. The particles are tightly packed and move freely in all directions.
- C. The particles are tightly packed and vibrate in place.
- D. The book has a fixed shape and volume.
- 20) Particles within a solid......
 - A. move about freely
 - B. vibrate in fixed positions
 - C. do not move
 - D. change place easily
- 21) Gases, like air in a balloon,.....have a fixed shape or a fixed volume.
 - A. sometimes
 - B. definitely
 - C. always
 - D. do not
- 22) Which of the following is NOT true about a gas such as air?
 - A. A gas has a definite shape.
 - B. A gas has no definite shape.
 - C. A gas fills all of the space it is placed
 - D. A gas has no definite volume



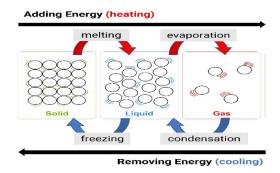
23) The change in state shown on the glass is caused by

- A. releasing energy
- B. producing energy
- C. adding energy
- D. removing energy



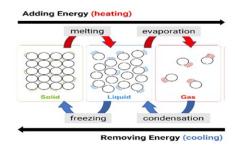
24) What word is used to describe liquid water changing to ice?

- A. condensing
- B. freezing
- C. evaporating
- D. melting



25) What causes a change in the state of matter?

- A. Removing Energy
- B. adding or removing energy
- C. adding energy
- D. creating energy and destroying energy



26) Freezing is when a liquid becomes a

- A. Solid
- B. Gas
- C. liquid



27) Which of the following must happen for solid ice to change to liquid water?

- A. energy must be kept the same
- B. energy must be removed
- C. the particles must move slower
- D. energy must be added
- E. the particles must move faster
- F. the particles must move closer together



28) The ice cream is melting. How can you get the ice cream to return to a solid?

- A. cool it in the freezer
- B. keep holding it in your hand
- C. remove it from the cone
- D. heat it on the stove



29) Which process does this picture shows?

- A. evaporation
- B. melting
- C. condensation
- D. freezing



30) Which process does this picture shows?

- A. Evaporation
- B. melting
- C. condensation
- D. freezing



31) Which process does this picture shows?

- A. Evaporation
- B. melting
- C. condensation
- D. freezing



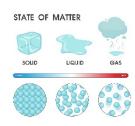
32) Which process does this picture shows?

- A. Evaporation
- B. melting
- C. condensation
- D. freezing



33) If the temperature of a liquid is increased enough, it will become a

- A. Gas
- B. Solid
- C. liquid



34) What are the differences between evaporation and condensation?

- A. During condensation, energy is added.
- B. During evaporation, energy is removed.
- C. During condensation, a liquid becomes a gas.
- D. During condensation, a gas becomes a liquid.
- E. During evaporation, a gas becomes a liquid.
- F. During evaporation, energy is added.

35) What is condensation?

- A. the process by which a liquid becomes a solid
- B. the process by which a liquid becomes a gas
- C. the process by which a solid becomes a liquid
- D. the process by which a gas becomes a liquid



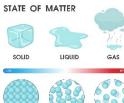
- 36) What word is used to describe liquid water changing to ice?
 - A. freezing
 - B. condensing
 - C. evaporating
 - D. melting







- 37) In which state of matter are the particles farthest apart?
 - A. Liquid
 - **B.** Plastic
 - C. Gas
 - D. Solid
- 38) For matter to change from a gas \rightarrow to a liquid \rightarrow to a solid, energy must be......
 - A. removed
 - B. added



Answers

- 1. A
- 2. A/B
- 3. B
- 4. C
- 5. A
- 6. C
- 7. B
- 8. A
- 9. A
- 10. A
- **11**. D
- **12.** A
- 13. C
- 14. A
- 15. C
- 16. C
- 17. A
- 18. C
- 19. C/D
- 20. B
- 21. D
- 22. A
- 23. D
- 24. B
- 25. B
- 26. A
- 27. D/E
- 28. A
- 29. A
- 30. B
- 31. C
- 32. D
- 33. A
- 34. D/F
- 35. D
- 36. A
- 37. C
- 38. A