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# Change of State Test Review Edit

States of Matter Review

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## Questions

1. Which of these statements describes what happens as the temp. of a gas in a balloon increases? 

- The speed of the particles decreases      Gas volume increases, & speed of particles increases  
The volume of the gas decreases      The pressure of the gas decreases

**30**  
Seconds      **4**  
Choices

2. Which of the following statements best describes the particles of a liquid?

 Hide answers


- The particles are far apart and moving fast      The particles are close together but moving past each other  
The particles are far apart and moving slowly      The particles are closely packed and vibrating in place

**30**  
Seconds      **4**  
Choices

3. Boiling points and freezing points are examples of 

- chemical properties      physical properties      energy      matter


**30**  
Seconds      **4**  
Choices

4. Dew collecting on a spider web in the early morning is an example of 

- condensation      evaporation      sublimation      melting


**30**  
Seconds      **4**  
Choices

5. During which change of state do atoms or molecules become more ordered?

 Hide answers


- boiling      condensation      melting      sublimation

**30**  
Seconds      **4**  
Choices

6. Which of the following changes of state is exothermic? 

- evaporation      melting      freezing      All of the above

**30**  
Seconds      **4**  
Choices

7. What happens to volume of gas in a cylinder if temperature doesn't change but pressure reduced? 

- The volume of the gas increases      The volume of the gas stays the same      The volume of the gas decreases  
There is not enough information to determine the answer

**30**  
Seconds      **4**  
Choices

8. The atoms and molecules in matter [Hide answers](#) **30 Seconds** **4 Choices**  
are attracted to one another    are constantly moving    move faster at higher temperatures    All of the above
- 
9. Which of the following statements is NOT true of atoms and molecules? [Hide answers](#) **30 Seconds** **4 Choices**  
They are tiny particles.    They are always in motion    They are found in all matter    They never bump into each other
- 
10. In a solid, the particles [Hide answers](#) **30 Seconds** **4 Choices**  
overcome the strong attraction between them    vibrate in place    slide past one another  
move independently of one another
- 
11. Crystalline solids [Hide answers](#) **30 Seconds** **4 Choices**  
include glass and rubber    may also be liquids    have particles that are not in a special arrangement  
have particles in a repeating pattern of rows
- 
12. Orange juice [Hide answers](#) **30 Seconds** **4 Choices**  
has a surface tension that is different from gasoline    changes volume when poured into a different container  
has the same viscosity as other liquids    has a definite shape
- 
13. A gas [Hide answers](#) **30 Seconds** **4 Choices**  
has a definite volume but no definite shape    has a definite shape but no definite volume    has fast-moving particles  
has particles that are always close together
- 
14. At higher temperatures, [Hide answers](#) **30 Seconds** **4 Choices**  
particles in an object move faster    gas particles bump into walls less often    a gas contracts  
particles in an object have less energy
- 
15. Balloons can be twisted into shapes because [Hide answers](#) **30 Seconds** **4 Choices**  
the volume of a gas is constant    particles of gas can be compressed    volume is measured in two dimensions  
the force exerted changes the number of particles
- 
16. How does a basketball under high pressure compare to a basketball under low pressure? [Hide answers](#) **30 Seconds** **4 Choices**  
The particles of gas are farther apart    The particles of gas collide only with each other  
The force exerted on the inside of the ball is lower    There are more particles of gas
- 
17. Boyle's law states that for a fixed amount of gas [Hide answers](#) **30 Seconds** **4 Choices**  
volume of gas is inversely related to pressure    the volume of the gas is directly related to pressure  
volume of the gas is directly related to temperature    volume of the gas is inversely related to temperature
- 
18. According to Charles's law, [Hide answers](#) **30 Seconds** **4 Choices**  
decrease temp of gas causes pressure on molecules 2 decrease    decreasing temp. of gas causes volume of gas 2 increase  
increasing temp. of a gas causes volume of gas 2 increase    increase temp of gas causes pressure on molecules 2 increase
- 
19. a change in which energy is gained by a substance as it changes state [Hide answers](#) **30 Seconds** **4 Choices**  
exothermic    endothermic    change of state    vapor pressure

20. the change of state from a solid to a liquid [Hide answers](#)

evaporation boiling melting freezing

**30**  
Seconds **4**  
Choices

21. the change of a substance from one physical form to another [Hide answers](#)

change of state pressure endothermic exothermic

**30**  
Seconds **4**  
Choices

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22. the pressure inside the bubbles of a boiling liquid [Hide answers](#)

change of state melting freezing vapor pressure

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**30**  
Seconds **4**  
Choices

23. the change of state from a solid directly to a gas [Hide answers](#)

boiling evaporation sublimation condensation

**30**  
Seconds **4**  
Choices

24. the change of state from a liquid to a gas [Hide answers](#)

evaporation melting freezing sublimation

**30**  
Seconds **4**  
Choices

25. the change of a liquid to a vapor throughout the liquid [Hide answers](#)

melting evaporation condensation boiling

**30**  
Seconds **4**  
Choices