



Name \_\_\_\_\_ Class \_\_\_\_\_ Date \_\_\_\_\_

1 Compared to the **freezing point** of **1.0 M KCl(aq)** at standard pressure, the freezing point of **1.0 M CaCl<sub>2</sub>(aq)** at standard pressure is

- A lower
- B higher
- C the same

2 A solid substance was tested in the laboratory. The test results are listed below.

- dissolves in water
- is an electrolyte
- melts at a high temperature

Based on these results, the solid substance could be

- A Cu
- B CuBr<sub>2</sub>
- C C
- D C<sub>6</sub>H<sub>12</sub>O<sub>6</sub>

3 At **1 atmosphere** of pressure, water and ice can exist in **equilibrium** at a temperature of

- A 212°C
- B 100°C
- C 32°C



4 When a substance **melts**, it undergoes the process called

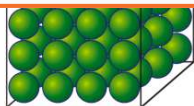
- A condensation
- B fusion
- C sublimation
- D vaporization



## PREVIEW

Please [Sign In](#) or [Sign Up](#) to download the printable version of this worksheet

- C Cl<sub>2</sub>
- D I<sub>2</sub>

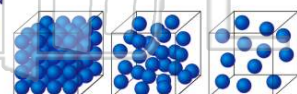


- B increase
- C remain the same



9 Which change of phase is **exothermic**?

- A solid to liquid
- B gas to liquid
- C solid to gas
- D liquid to gas



10 Water will **boil** at **22°C** if the **pressure** on the surface of the water is

- A 760.0 mmHg
- B 92.5 mmHg
- C 19.8 mmHg
- D 4.6 mmHg





## ANSWER KEY

Compared to the **freezing point** of **1.0 M KCl(aq)** at standard pressure, the freezing point of **1.0 M CaCl<sub>2</sub>(aq)** at standard pressure is

- A lower
- B higher
- C the same

(a)

A solid substance was tested in the laboratory. The test results are listed below.

- dissolves in water
- is an electrolyte
- melts at a high temperature

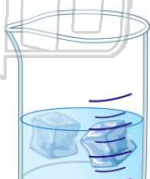
(b)

Based on these results, the solid substance could be

- A Cu
- B CuBr<sub>2</sub>
- C C
- D C<sub>6</sub>H<sub>12</sub>O<sub>6</sub>

At **1 atmosphere** of pressure, water and ice can exist in **equilibrium** at a temperature of

- A 212°C
- B 100°C
- C 32°C
- D 0°C



(d)

When a substance **melts**, it undergoes the process called

- A condensation
- B fusion
- C sublimation
- D vaporization



(b)

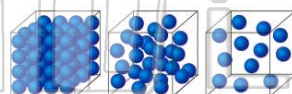


## PREVIEW

Please [Sign In](#) or [Sign Up](#) to download the printable version of this worksheet

Which change of phase is **exothermic**?

- A solid to liquid
- B gas to liquid
- C solid to gas
- D liquid to gas



(b)

Water will **boil** at **22°C** if the **pressure** on the surface of the water is

- A 760.0 mmHg
- B 92.5 mmHg
- C 19.8 mmHg
- D 4.6 mmHg



(c)