



Name _____ Class _____ Date _____

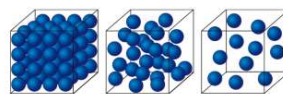
1 What is the **boiling point** of water when the atmospheric pressure exerted on the water is **525.8 mmHg**?

- A 50°C
- B 90°C
- C 100°C
- D 110°C



2 Which phase change is **exothermic**?

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



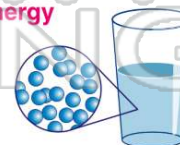
3 What happens when two oxygen atoms **combine** to form a **molecule of oxygen**?

- A Chemical bonds are broken and energy is absorbed.
- B Chemical bonds are broken and energy is released.
- C Chemical bonds are formed and energy is absorbed.



4 The **average kinetic energy** of water molecules **increases** when

- A H₂O(s) changes to H₂O(l) at 0°C
- B H₂O(l) changes to H₂O(s) at 0°C
- C H₂O(l) at 10°C changes to H₂O(l) at 20°C



PREVIEW

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- A 11.2 L
- B 22.4 L
- C 33.6 L
- D 44.8 L



- B $P = kV$
- C $PV = k$
- D $\frac{V}{P} = k$

9 Which formula represents a **homogeneous mixture**?

- A H₂O(l)
- B H₂S(g)
- C NaH(s)
- D HCl(aq)

10 Which term represents a form of **energy**?

- A heat
- B degree
- C kilocalorie
- D temperature





ANSWER KEY

What is the **boiling point** of water when the atmospheric pressure exerted on the water is **525.8 mmHg**?

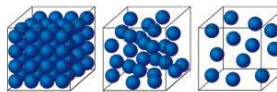
- A 50°C
- B 90°C
- C 100°C
- D 110°C



(b)

Which phase change is **exothermic**?

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



(c)

What happens when two oxygen atoms **combine** to form a **molecule of oxygen**?

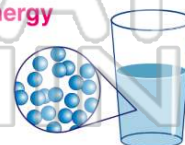
- A Chemical bonds are broken and energy is absorbed.
- B Chemical bonds are broken and energy is released.
- C Chemical bonds are formed and energy is absorbed.
- D Chemical bonds are formed and energy is released.



(d)

The **average kinetic energy** of water molecules **increases** when

- A H₂O(s) changes to H₂O(l) at 0°C
- B H₂O(l) changes to H₂O(s) at 0°C
- C H₂O(l) at 10°C changes to H₂O(l) at 20°C
- D H₂O(l) at 20°C changes to H₂O(l) at 10°C



(c)



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- B 22.4 L
- C 33.6 L
- D 44.8 L



- C $PV = k$
- D $\frac{V}{P} = k$

Which formula represents a **homogeneous mixture**?

- A H₂O(l)
- B H₂S(g)
- C NaH(s)
- D HCl(aq)

(d)

Which term represents a form of **energy**?

- A heat
- B degree
- C kilocalorie
- D temperature



(a)