



Name _____ Class _____ Date _____

1 When a Bunsen burner is used to **heat** water, the liquid _____.

- A just evaporates
- B condenses
- C just boils
- D boils and vaporizes



2 When ice cream **melts**, the particles of ice cream have _____.

- A more volume
- B less volume
- C more mass
- D less mass



3 **Solid** carbon dioxide sublimates directly into a **vapor**. This property is useful when _____.

- A building campfires
- B lighting matches
- C saving rainforests



4 Using the **data table** shown below, estimate the pressure of the gas if the volume was **225 mL**.

- A 24 kPa
- B 27 kPa
- C 30 kPa

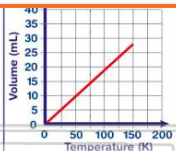
Volume (mL)	Pressure (kPa)
300	20
250	24
200	30
150	42



PREVIEW

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7
U
v
V
A
E
C
D
A 5 mL
B 15 mL
C 30 mL
D 75 mL

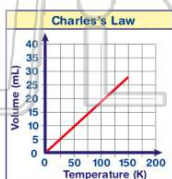


- B the gas molecules get further away from each other
- C the gas molecules do not change their position
- D each molecule of gas gets bigger



9 Using the graph below, estimate the **volume** of the gas if the temperature of the gas was raised to **175 K**.

- A between 40 mL and 45 mL
- B between 25 mL and 30 mL
- C between 30 mL and 35 mL
- D between 150 mL and 200 mL



10 A hot air balloon **rises** from the ground because the **hot air** inside the balloon

- A cannot push the cool air out of the balloon
- B traps the cool air near the top of the balloon
- C is more dense than the air outside of the balloon
- D is less dense than the air outside of the balloon





ANSWER KEY

When a Bunsen burner is used to **heat** water, the liquid _____.

- A just evaporates
- B condenses
- C just boils
- D boils and vaporizes



(d)

When ice cream **melts**, the particles of ice cream have _____.

- A more volume
- B less volume
- C more mass
- D less mass



(a)

Solid carbon dioxide sublimates directly into a **vapor**. This property is useful when _____.

- A building campfires
- B lighting matches
- C saving rainforests
- D using fire extinguishers



(d)

Using the **data table** shown below, estimate the pressure of the gas if the volume was **225 mL**.

- A 24 kPa
- B 27 kPa
- C 30 kPa
- D 33 kPa

Volume (mL)	Pressure (kPa)
300	20
250	24
200	30
150	42
100	58

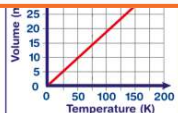
(b)



PREVIEW

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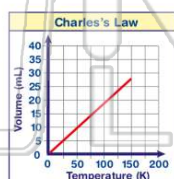
- C 30 mL
- D 75 mL



- get further away from each other
- C the gas molecules do not change their position
- D each molecule of gas gets bigger

Using the graph below, estimate the **volume** of the gas if the temperature of the gas was raised to **175 K**.

- A between 40 mL and 45 mL
- B between 25 mL and 30 mL
- C between 30 mL and 35 mL
- D between 150 mL and 200 mL



(c)

A hot air balloon **rises** from the ground because the **hot air** inside the balloon _____.

- A cannot push the cool air out of the balloon
- B traps the cool air near the top of the balloon
- C is more dense than the air outside of the balloon
- D is less dense than the air outside of the balloon



(d)