ILLINOIS CHEMISTRY · ILLINOIS

# Illinois Chemistry

## Practice Test

### Unit 4: Gases, Thermodynamics, and Equilibrium

5 Questions

Original practice test based on the Illinois curriculum. Work through each question, then check your answers at the end.

This practice test was made by AI and there may be mistakes. If a question or answer looks wrong, use the Flag a mistake button to let Brett know so he can fix it.

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Question 1

Gas pressure is caused by gas particles

A) colliding with the walls of the container

B) bonding to the container

C) freezing in place

D) dissolving in the container

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Question 2

A gas at 200 kPa occupies 3 L. At the same temperature, at 100 kPa, its volume, in liters, is ____

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Question 3

A temperature of 25 degrees Celsius is equal to

A) 273 K  B) 298 K

C) 250 K  D) 325 K

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Question 4

A gas occupies 4 L at 273 K. At constant pressure, at 546 K, its volume, in liters, is ____

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Question 5

Gas particles diffuse faster at higher temperature because they have

A) less energy

B) more mass

C) more kinetic energy

D) fewer collisions

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# ANSWER KEY

1. A
2. 6
3. B
4. 8
5. C

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