
Here are the questions from [Qualitative Ideal Gas Video - audio - Quiz]

1. Do you expect the volume of the balloon to increase or decrease?

Optional Answers:

1. increase
2. decrease

2. The constant variables are:

Optional Answers:

1. pressure (P) and temperature (T)
2. pressure (P), temperature (T), and amount (n)
3. pressure (P) only
4. pressure (P) and volume (V)

3. If volume (V) is proportional to amount (n), we can predict that:

Optional Answers:

1. $V_2 > V_1$
2. $V_1 = V_2$
3. $V_1 > V_2$
4. $V_2 < V_1$

4. Rearrange to solve for V2

Optional Answers:

1. $V_2 = (V_1 * n_2) / n_1$
2. $V_2 = n_2 / (V_1 * n_1)$
3. $V_2 = n_1 / (V_1 * n_2)$
4. $V_2 = (V_1 * n_1) / n_2$

5. When more molecules are added to the container, the frequency of collisions decrease.

Optional Answers:

1. True
2. False

6. Ideal gas molecules _____ the container walls exerting an internal pressure.

Optional Answers:

1. collide with
2. react with
3. are repulsed by
4. are attracted to

7. If the volume of the container was fixed, the increased collisions would be observed as ...

Optional Answers:

1. increasing pressure
2. decreasing pressure
3. increasing temperature
4. increasing molecular speed

Thank You