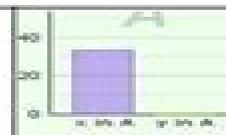


Activity A:
Temperature and diffusion

Get the Gizmo ready:

- Click **Reset** (↺).
- Set the **Wall** to 100%.



Introduction: In this Gizmo, temperature is measured on the **Kelvin scale**. On this scale, 0 K represents **absolute zero**, the coldest possible temperature. Water freezes at 273.15 K (0 °C), and water boils at 373.15 K (100 °C).

Question: How does temperature affect the rate of diffusion?

1. **Observe:** Click **Reset**. Set the temperature to 100 K, and click **Play**. Observe the number of particles on each side. Then set the temperature to 200 K, and click **Play** again.
- How does the temperature of the gas relate to the number of particles?

As the temperature increases, the number of particles increases.

The number of particles on each side of the barrier is **approximately equal**. The rate of diffusion is **slow** at 100 K, and **faster** at 200 K.

2. **Observe:** How do you think temperature will affect the rate of diffusion?

As the temperature increases, the rate of diffusion will increase.

3. **Observe:** Click **Reset**. Set the barrier to 50% permeability, and click **Play**. Then set the temperature to 100 K, and click **Play** again. Repeat these steps with the temperature set to 200 K.

How does the rate of diffusion change with temperature? How do you think the rate of diffusion is related to the wall's permeability?

Repeat these steps with a 100% permeability wall, and then set the temperature set to 100 K.

Temp = 100 K, permeability = 100%

Temp	Permeability	Rate of Diffusion
100 K	100%	slow

Explore Learning Gizmo Answer Key Diffusion

Michael Hoelscher



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