

Diffusion Explored

Part 1: Heat, Random Motion, and Diffusion

Molecules are in constant random motion, which increases as temperature increases. As a result, substances diffuse from areas of higher to lower concentration.

- Random Motion Is Essential
- The Kinetic Theory of Heat
- Concentration
- Diffusion
- What Is Diffusive Flux?
- Random Motion, Membranes, and Macromolecules
- Test Your Understanding
- Summary of Part 1

Part 2: Diffusion in Cells

A closer look at the role of diffusion at the cellular level.

- Molecules in Motion
- Proteins Diffuse Along an Axon
- The Speed of Diffusion
- Diffusion Is Effective Over Short Distances
- Plants Rely on Diffusion
- Test Your Understanding
- Summary of Part 2

Part 3: Quiz Questions

Quiz Questions

- Quiz Questions
- Feedback Survey

Part 4: Diffusion Sandbox

An experimental section for further exploration of diffusion.

- Explore On Your Own
- Dye Diffusion
- Diffusive Flux
- Axon Diffusion