

## PHYSICAL KINETIC MOLECULAR THEORY

### Learning Objectives

- 1) Identify theoretical differences in how gases participate in the kinetic theory and how molecules in liquids and solids participate in the kinetic molecular theory
- 2) Identify how temperature affects molecular motion
- 3) Explain how kinetic molecular theory is applied to the behavior of everyday substances

### Module 1: Representation of States in Different Phases

The following figure illustrates representative particle behavior across different temperature regimes:



Figure 1: Representative particle behavior at different temperature regimes

Molecular motion is governed by kinetic energy, which is related to temperature. Higher temperatures result in more rapid molecular motion.

### Key Concepts

1. **States of Matter:** Solids, liquids, and gases differ in the arrangement and movement of their particles. Solids have a fixed shape and volume, liquids have a fixed volume but no fixed shape, and gases have no fixed shape or volume.

Table 1: Characteristics of the Three States of Matter

	SOLID	LIQUID	GAS
<b>Particle Arrangement</b>	Particles are packed closely together in a regular, repeating pattern. The intermolecular forces are strong.	Particles are packed closely together but can move past each other. The intermolecular forces are moderate.	Particles are widely spaced and move rapidly in all directions. The intermolecular forces are weak.
<b>Particle Movement</b>	Particles vibrate in place but do not move from their positions.	Particles move more freely, sliding past each other.	Particles move rapidly in all directions, filling the container.

# Lw 1 Pogil Kinetic Molecular Theory Answers

**E Durkheim**



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## Unveiling the Power of Verbal Artistry: An Psychological Sojourn through **Lw 1 Pogil Kinetic Molecular Theory Answers**

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