

# PHYSICAL KINETIC MOLECULAR THEORY

## Learning Objectives

- to identify theoretical differences in how heat conduction occurs in different types of materials and to understand the relationship of the kinetic molecular theory to specific heat capacity and thermal conductivity
- to represent quantitative values for specific heat capacity and thermal conductivity

## Module 1: Representation of states in different phases

The following figure illustrates representative particle behaviour in different states of matter:



Figure 1: Representative particle behaviour in different states of matter

Students may struggle to represent qualitative differences between solid, liquid and gaseous states. Encourage representation with clear labels and arrows indicating

## Key Questions

- What are the key differences in particle behaviour in each state, and which are shown in Figure 1. Using suitable descriptive labels of particle behaviour (e.g. fixed, disordered, close, widely spaced) to represent the position of particles (movement is not needed for this question and not the answer)

Table 1: Differences in the theory of states

	SOLID	LIQUID	GASEOUS
<b>What are the key differences in particle behaviour?</b>	Particles packed in a fixed, regular arrangement. Particles are close together. The arrangement is fixed.	Particles packed in a disordered, close-packed arrangement. Particles are close together. The arrangement is not fixed. Particles are moving.	Particles packed in a disordered, widely spaced arrangement. Particles are widely spaced. The arrangement is not fixed. Particles are moving.
<b>Are particles in each state in a fixed arrangement?</b>	Yes. Particles are in a fixed arrangement. The arrangement is fixed.	No. Particles are in a disordered arrangement. The arrangement is not fixed.	No. Particles are in a disordered arrangement. The arrangement is not fixed.

# Kinetic Molecular Theory Pogil Instructors Guide

**N Noddings**



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