

PHYSICAL KINETIC MOLECULAR THEORY

Learning Objectives

- to identify theoretical differences in how heat conduction occurs in the solid, liquid and gaseous states; to
- explain the contribution of the potential of the mean attractive forces to kinetic theory; to identify the contribution of the potential forces to
- to explain kinetic phenomena using concepts of the kinetic theory of molecular motion.

Module 1: Representation of states in different phases

The following figure illustrates the representative particles in three different states of matter: solid, liquid and gas.

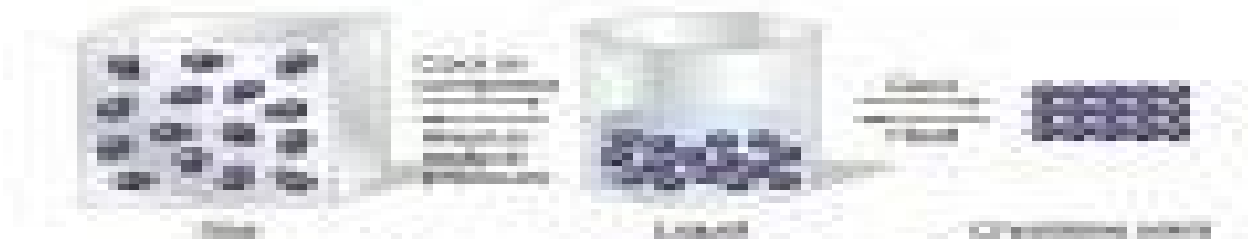


Figure 1: Representative particles in different states of matter

Modern kinetic theory explains the differences in the way heat conduction occurs in the solid, liquid and gaseous states.

Heat Conduction

- Effect: how the heat conduction in solids, liquids and gases occurs, and explain the effect of temperature on the rate of heat conduction in solids, liquids and gases. The rate of heat conduction in solids, liquids and gases is given by the equation: $\frac{Q}{t} = \frac{kA\Delta T}{L}$, where Q is the heat, t is the time, k is the thermal conductivity, A is the area, ΔT is the temperature difference, and L is the thickness of the material.

Table 1: Heat conduction in the three states of matter

	SOLID STATE	LIQUID STATE	GASEOUS STATE
Heat conduction in solids	Heat conduction in solids occurs by the transfer of energy from one particle to another. The particles are closely packed, and the energy is transferred by the vibration of the particles.	Heat conduction in liquids occurs by the transfer of energy from one particle to another. The particles are in a disordered arrangement, and the energy is transferred by the collision of the particles.	Heat conduction in gases occurs by the transfer of energy from one particle to another. The particles are widely spaced, and the energy is transferred by the collision of the particles.
Heat conduction in liquids	Heat conduction in liquids occurs by the transfer of energy from one particle to another. The particles are in a disordered arrangement, and the energy is transferred by the collision of the particles.	Heat conduction in liquids occurs by the transfer of energy from one particle to another. The particles are in a disordered arrangement, and the energy is transferred by the collision of the particles.	Heat conduction in gases occurs by the transfer of energy from one particle to another. The particles are widely spaced, and the energy is transferred by the collision of the particles.
Heat conduction in gases	Heat conduction in solids occurs by the transfer of energy from one particle to another. The particles are closely packed, and the energy is transferred by the vibration of the particles.	Heat conduction in liquids occurs by the transfer of energy from one particle to another. The particles are in a disordered arrangement, and the energy is transferred by the collision of the particles.	Heat conduction in gases occurs by the transfer of energy from one particle to another. The particles are widely spaced, and the energy is transferred by the collision of the particles.

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