

CHAPTER OVERVIEW

12: Temperature and Kinetic Theory

Topic hierarchy

12.1: Temperature and Heat

Heat Transfer, Specific Heat, and Calorimetry

Mechanisms of Heat Transfer

Phase Changes

Prelude to Temperature and Heat

Temperature and Heat (Answer)

Temperature and Heat (Exercises)

Temperature and Heat (Summary)

Temperature and Thermal Equilibrium

Thermal Expansion

Thermometers and Temperature Scales

12.2: Introduction

12.3: Temperature and Temperature Scales

12.4: Thermal Expansion

12.5: Ideal Gas Law

12.6: The Kinetic Theory of Gases

Distribution of Molecular Speeds

Heat Capacity and Equipartition of Energy

Molecular Model of an Ideal Gas

Prelude to The Kinetic Theory of Gases

Pressure, Temperature, and RMS Speed

The Kinetic Theory of Gases (Answer)

The Kinetic Theory of Gases (Summary)

The Kinetic Theory of Gases Introduction (Exercises)

12.7: Kinetic Theory

12.8: Phase Changes

12.9: The Zeroth Law of Thermodynamics

12.10: Thermal Stresses

12.11: Diffusion

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