



Unit 1

Motion and Forces

Chapter 1 Describing Motion

What are some ways to describe motion?

Chapter 2 The Laws of Motion

How do forces change the motion of objects?

Chapter 3 Work and Simple Machines

How do machines make doing work easier?

Chapter 4 Forces and Fluids

In what ways do people use forces in fluids?

Unit 2

Energy and Matter

Chapter 5 Energy and Energy Resources

What is energy and what are energy resources?

Chapter 6 Thermal Energy

How can thermal energy be used?

Chapter 7 Foundations of Chemistry

What is matter and how does it change?

Chapter 8 States of Matter

What physical changes and energy changes occur as matter goes from one state to another?

Unit 3

Properties of Matter

Chapter 9 Understanding the Atom

What are atoms and what are they made of?

Chapter 10 The Periodic Table

How is the periodic table used to classify and provide information about all known elements?

Chapter 11 Elements and Chemical Bonds

How do elements join together to form chemical compounds?

Unit 4

Interactions of Matter

Chapter 12 Chemical Reactions and Equations

What happens to atoms and energy during a chemical reaction?

Chapter 13 Mixtures, Solubility, and Acid/Base Solutions

What are solutions and bases and how are they described?

Chapter 14 Carbon Chemistry

What is carbon's role in the chemistry of living things?

Unit 5

Waves, Electricity, and Magnetism

Chapter 15 Waves

How do waves travel through matter?

Chapter 16 Sound

How can you produce, describe and use sounds?

Chapter 17 Electromagnetic Waves

How can you describe and use electromagnetic waves?

Chapter 18 Light

How does matter affect the way you perceive and use light?

Chapter 19 Electricity

How do electric circuits and devices transform energy?

Chapter 20 Magnetism

How are electric charges and magnetic fields related?