Each handbook has two parts. Students can use the first part to learn about science topics. If they need help reading or writing about science, they can use the second part. Handbooks follow the same format in each level to provide a unified curriculum across all grades.

**Part One: Science Essentials**

These lessons help students learn about science ideas and the vocabulary used to talk about them.

- **Life Science**
  - Life science is the study of living things. Students will learn about many types of living things, what they are made of, and how they live.

- **Earth Science**
  - Earth science is the study of many topics. It includes what makes up Earth, fossils, weather, water, and space.

- **Physical Science**
  - Physical science is the study of matter and energy. These lessons explain matter and how energy causes change.

- **Studying Science**
  - Science is about asking and answering questions. These lessons show students how scientists solve problems.

**Part Two: Literacy Essentials**

These lessons teach students how to read and comprehend content-area text.

- **Reading Science**
  - The lessons in this section show students how to use text features to help them read.

- **Comprehension**
  - These lessons teach students strategies and skills for reading.

- **Understanding Language**
  - This section helps students learn phrases and words in the English language.

- **Writing for Science**
  - This section gives students a process to use when they write about science.

**Level A Table of Contents**

Appropriate for grades K–2, the Level A student handbook is supported with a Teacher Guide, Blackline Masters, and a Poster Big Book. Robust Technology Tools for both students and teachers include video, animations, narration, a photo library and online student activities.

**Part One: Science Essentials**

**Life Science**

- Is It Alive?
- What Plants Need
- Parts of a Plant
- Kinds of Plants
- How Plants Are Adapted
- Environments

- Types of Animals
- How Animals Are Adapted
- Endangered Animals
- Food Energy
- The Food Chain
- Life Cycles
This student handbook focuses on grades 3–4, and includes a Teacher Guide, Blackline Masters and Overhead Transparencies. Technology Tools for students and teachers support Science Essentials lessons with video, animations, narration, a photo library, and online student activities.

**Part One: Science Essentials**

**LIFE SCIENCE**
- Classifying Organisms
- Animal Groups
- Types of Animals
- Animal Needs
- Animal Life Cycles
- Plant Needs
- Parts of Plants
- Plant Groups
- Plant Life Cycles
- What Flowers Do
- How Plants Make Food
- Adaptations in Living Things
- Cells and What They Do
- Human Body Systems
- How Your Body Moves
- How You Get Nutrients
- How Oxygen and Nutrients Move
- How You Move and React
- Parts of an Ecosystem
- Kinds of Biomes
- Types of Living Things
- Habitats
- How Living Things Interact
- Food Chains and Webs
- Changes to Habitats
- People and the Environment

**EARTH SCIENCE**
- Earth’s Layers
- Rocks and Minerals
- Types of Rocks
- Fossils
- Landforms
- Changes to Earth’s Surface
- Volcanoes
- Earth’s Plates
- Earthquakes

**SOIL**
- Earth’s Resources
- Conservation and Recycling
- Earth’s Water
- The Water Cycle
- Earth’s Atmosphere
- Air Masses
- Clouds
- Measuring Weather
- Predicting Weather
- Storms
- The Solar System
- Day and Night
- Seasons
- The Moon
- Other Objects in Space

**PHYSICAL SCIENCE**
- What Is Matter?
- States of Matter
- Measuring Matter
- Atoms and Elements
- Physical Changes in Matter
- Chemical Changes in Matter
- Energy
- Heat Energy
- How Heat Moves
- Static Electricity
- Current Electricity
- Magnets
- Sound
- Light Energy
- Motion
- Force
- Gravity
- Simple Machines
- Technology
Students in grades 5–6 can use this student handbook, which is also supported with a Teacher Guide, Blackline Masters, and Overhead Transparencies. The same robust Technology Tools used in the previous levels provide video, animations, narrations, a photo library, and online student activities.

**Part One: Science Essentials**

### LIFE SCIENCE
- Living Things
- Cells
- What Cells Do
- How Organisms Grow
- Comparing Plant and Animal Cells
- How Living Things Are Classified
- How Plants Are Classified
- How Plants Make Food
- How Plants Respond
- How Animals are Classified
- Invertebrates
- Vertebrates
- Life Cycles
- Adaptations in Plants
- Adaptations in Animals
- Natural Selection
- Human Body Systems
- Keeping Healthy
- Heredity and Traits
- Ecosystems
- Energy in Ecosystems
- Interactions of Living Things
- The Nitrogen Cycle
- Symbiosis and Competition
- Feeding Relationships
- Food Chains
- Food Webs
- Ecological Succession
- Kinds of Biomes
- Preserving Life

### EARTH SCIENCE
- Earth’s Layers
- Earth’s Plates
- Earth’s Changing Surface
- Earthquakes
- Volcanoes
- Weathering
- Landforms
- Oceans
- How Ocean Waters Move
- Exploring the Ocean
- Salt Water and Freshwater
- The Water Cycle
- What Wetlands Do
- Earth’s Atmosphere
- What Causes Wind
- Thunderstorms
- Hurricanes
- Tornadoes
- Blizzards
- Predicting Weather
- Climate
- Climate Change
- Minerals
- How Rocks Form
- The Rock Cycle
- Soil
- Fossils
- Fossil Fuels
- Earth’s Resources
- Conserving Resources
- The Sun
- The Solar System
- Asteroids, Comets, and Meteors
- Earth and the Moon
- The Surface of the Moon
- Life on Mars?
- Galaxies
- Constellations
- Exploring Space

### PHYSICAL SCIENCE
- Properties of Matter
- States of Matter
- How Matter Changes State
- Measuring Matter
- Atoms
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Grades K–6

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