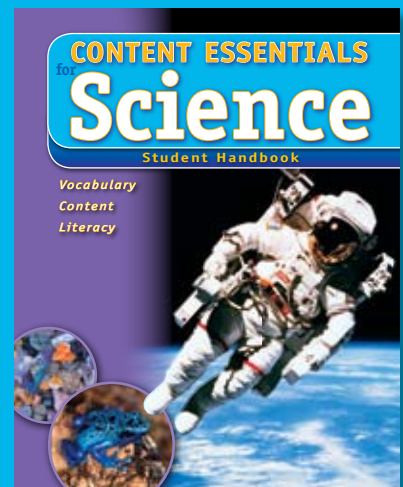
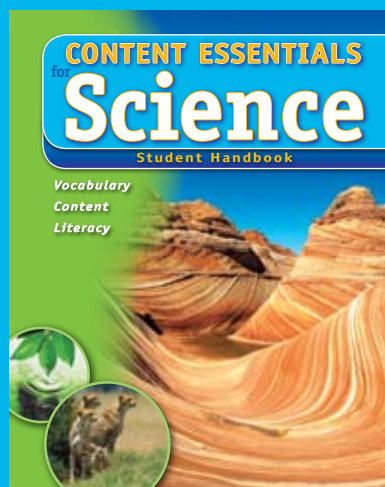
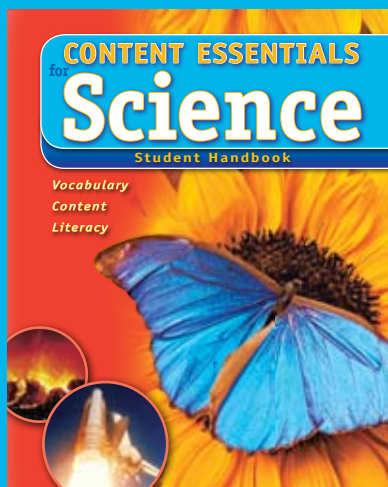


CONTENT ESSENTIALS for Science



STUDENT HANDBOOK TABLE OF CONTENTS | LEVELS A, B, AND C



Wright Group

STUDENT HANDBOOK

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



LEVEL A

TABLE OF CONTENTS

Part One: Science Essentials

(Continued)

EARTH SCIENCE



Rocks and Minerals
Soil
How Earth Changes
Fossils
Landforms
Water
Pollution
Recycling
The Sun and Stars
Day and Night
The Seasons
The Solar System
Weather
Measuring Weather
The Water Cycle
Storms

PHYSICAL SCIENCE



Matter
States of Matter
Changing Matter
Energy
Motion
Force
Gravity
Work
Friction
Simple Machines
Magnets
Technology

STUDYING SCIENCE



Science Process Skills
Using Science Methods

Part Two: Literacy Essentials

READING SCIENCE

Science Textbooks
Magazines and Newspapers
Internet
Parts of a Textbook
Textbook Features

COMPREHENSION

Comparing and Contrasting
Predicting
Determining Important Information
Summarizing
Making Inferences
Visualizing
Asking and Answering Questions
Monitoring Comprehension
Identifying Cause-Effect
Making Connections

UNDERSTANDING LANGUAGE

Prefixes and Suffixes
Cognates

WRITING FOR SCIENCE

Taking Notes
Organizing Ideas
Writing About Ideas

SCIENCE REFERENCES

Science Tools
Science Safety

GLOSSARY

LEVEL B

TABLE OF CONTENTS

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



STUDYING SCIENCE

Science Process Skills
Using Science Methods

Part Two: Literacy Essentials



READING SCIENCE

Science Textbooks
Periodicals
Internet
Parts of a Textbook
Textbook Features



COMPREHENSION

Comparing and Contrasting
Predicting
Determining Important Information
Summarizing
Making Inferences
Visualizing
Asking and Answering Questions
Monitoring Comprehension
Identifying Cause-Effect
Making Connections
Recognizing Sequence
Generalizing
Drawing a Conclusion



UNDERSTANDING LANGUAGE

Prefixes and Suffixes
Cognates
Homophones
Homographs
Comparatives and Superlatives
Jargon
Understanding Idioms
Signal Words
Phrasal Verbs
Common Spelling Mistakes



WRITING FOR SCIENCE

Choosing a Topic
Taking Notes
Organizing Ideas
Drafting and Revising
Editing and Proofreading

SCIENCE REFERENCES

Science Tools
Standard and Metric Units
Science Safety

GLOSSARY

LEVEL C

TABLE OF CONTENTS

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

Elements
Metals
Compounds
Mixtures and Solutions
How Matter Reacts Chemically
Force
Gravity
Friction
Motion
Speed
Velocity
Changes in Motion
Work
Measuring Work
Simple Machines
Working in Space
Forms of Energy
Energy of Motion
Energy Resources
Thermal Energy
How Heat Moves
Electricity
Electric Circuits
Magnets
Energy Waves
Light
Electromagnetic Waves
Light and Matter
Color
Mirrors
Lenses
Sound
Properties of Sound



STUDYING SCIENCE

Science Process Skills
Using Scientific Methods

Part Two: Literacy Essentials



READING SCIENCE

Science Textbooks
Periodicals
Internet
Parts of a Textbook
Textbook Features



COMPREHENSION

Comparing and Contrasting
Predicting
Determining Important Information
Summarizing
Making Inferences
Visualizing
Asking and Answering Questions
Monitoring Comprehension
Identifying Cause-Effect
Making Connections
Recognizing Sequence
Generalizing
Drawing a Conclusion



UNDERSTANDING LANGUAGE

Prefixes
Suffixes
Cognates
Homophones
Homographs
Comparatives and Superlatives
Jargon
Understanding Idioms
Signal Words
Phrasal Verbs
Common Spelling Mistakes



WRITING FOR SCIENCE

Choosing a Topic
Taking Notes
Organizing Ideas
Drafting and Revising
Editing and Proofreading

SCIENCE REFERENCES

Science Tools
Standard and Metric Units
The Periodic Table
Science Safety

GLOSSARY

Coming Soon!

CONTENT ESSENTIALS for **Science**

Grades
K-6

Science Content **PLUS** Nonfiction Literacy Instruction

Especially
effective with
ELL and at-risk
students



Handbooks and technology
tools to help students learn
academic vocabulary and
standards-based content



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