Scope and Sequence

Third Edition

Foundations Unit	Grades 1	2	3	4	5
Science Investigations	✓	✓	✓	✓	✓
Scientific Method	✓	✓	✓	✓	✓
Engineering Design Process	✓	✓	✓	✓	✓
Science Tools	✓	✓	✓	✓	✓
Recording and Analyzing Data	✓	✓	✓	✓	✓
Technology	✓	✓	✓	✓	✓

Life Science Unit	Grades 1	2	3	4	5
Animals	✓	✓	✓	✓	✓
Structure and Function	✓	✓	✓	✓	✓
Life Cycles	✓	✓	✓	✓	✓
Animal Needs	✓	✓	✓	✓	✓
Animal Varieties	✓	✓	✓	✓	✓
Vertebrates	✓	✓		✓	
Amphibians		✓		✓	
Birds	✓	✓		✓	
Fish	✓	✓		✓	
Mammals	✓	✓		✓	
Reptiles		✓		✓	
Invertebrates	✓	✓		✓	
Insects	✓	✓		✓	
Mollusks		✓			
Spiders		✓			
Traits	✓	✓		✓	✓
Plants	✓	✓	✓	✓	✓
Structure and Function	✓	✓	✓	✓	✓
Life Cycles	✓	✓	✓		✓
Plant Needs	✓	✓	✓	✓	✓
Plant Varieties	✓	✓	✓	✓	✓
Uses of Plants	✓	✓	✓		✓
Processes		✓	✓	✓	✓
Traits	✓	✓	✓	✓	✓
Ecosystems and Habitats	✓	✓	✓	✓*	✓
Food Chains and Webs	✓	✓	✓		✓
Environments		✓	✓	✓	✓
Fossils			✓	✓	
Classification	✓	✓	✓	✓	✓
Characteristics	✓	✓	✓	✓	✓
Systems	✓	✓		✓	✓
Criteria				✓	✓
Conservation		✓	✓		✓
Technology	✓	✓	✓	✓	✓

Physical Science Unit	Grades 1	2	3	4	5
Energy	✓	✓		✓	✓
Kinetic				✓	✓
Potential				✓	
Heat	✓	✓		✓	✓
Light	✓			✓*	
Sound	✓	✓*		✓	
Work			✓		
Motion	✓		✓	✓	
Types of	✓		✓	✓	
Speed			✓	✓	
Matter		✓			✓
States of Matter		✓			✓
Properties of Matter		✓			✓
Changes in Matter		✓			✓
Force	✓		✓	✓	✓*
Contact	✓		✓	✓	
Gravity			✓	✓	✓*
Electric			✓	✓	
Magnetic			✓		
Machines			✓		
Simple			✓		
Compound			✓		
Conservation				✓	✓
Technology	✓	✓	✓	✓	✓

Earth and Space Science Unit	Grades 1	2	3	4	5
The Lithosphere		✓		✓	✓*
Processes		✓		✓	✓
Plate Tectonics		✓		✓	✓
Rocks and Minerals				✓	✓
The Hydrosphere	✓	✓	✓	✓	✓
Processes	✓	✓	✓	✓	✓
Properties and States of Water	✓	✓	✓	✓	✓
Fresh Water		✓		✓	✓
Salt Water		✓		✓	✓
Habitats or Zones	✓	✓	✓		✓
The Atmosphere	✓	✓	✓	✓	✓
Processes	✓		✓	✓	✓
Weather and Climate	✓	✓	✓	✓	✓

Earth and Space Science (continued)	Grades 1	2	3	4	5
Astronomy	✓		✓		✓
Solar System	✓		✓		✓
Sun	✓		✓		✓
Moon Phases	✓		✓		✓
Seasons	✓		✓		✓
Stars	✓		✓		✓
Space Exploration	✓		✓		✓
Conservation				✓	✓
Technology	✓	✓	✓	✓	✓

Human Body Unit	Grades 1	2	3	4	5
Five Senses	✓	✓			
Musculoskeletal System	✓		✓	✓	✓
Nervous System			✓		✓
Circulatory System	✓			✓	
Digestive System	✓			✓	
Immune System	✓			✓	✓
Respiratory System	✓			✓	
Endocrine System					✓
Skin		✓		✓	✓
Teeth	✓				✓
Health	✓	✓	✓	✓	✓
Technology	✓	✓	✓	✓	✓

Crosscutting Concepts	Grades 1	2	3	4	5
Patterns	✓	✓	✓	✓	✓
Cause and Effect	✓	✓	✓	✓	✓
Scale, Proportion, and Quantity	✓	✓	✓	✓	✓
Systems and System Models	✓	✓	✓	✓	✓
Energy and Matter: Flows, Cycles, and Conservation	✓	✓	✓	✓	✓
Structure and Function	✓	✓	✓	✓	✓
Stability and Change	✓	✓	✓	✓	✓

Science and Engineering Practices	Grades 1	2	3	4	5
Asking Questions and Defining Problems	✓	✓	✓	✓	✓
Developing and Using Models	✓	✓	✓	✓	✓
Planning and Carrying Out Investigations	✓	✓	✓	✓	✓
Analyzing and Interpreting Data	✓	✓	✓	✓	✓
Using Mathematics and Computational Thinking	✓	✓	✓	✓	✓
Constructing Explanations and Designing Solutions	✓	✓	✓	✓	✓
Engaging in Argument from Evidence	✓	✓	✓	✓	✓
Obtaining, Evaluating, and Communicating Information	✓	✓	✓	✓	✓



*In Grade 5, force and gravity are presented from an earth and space science perspective in the Earth and Space Science Unit.

*In Grade 5, the lithosphere is referred to as the geosphere.

*In Grade 4, ecosystems are presented from an earth science perspective in the Earth and Space Science Unit.

*In Grade 4, light is presented from a physical science perspective in the Life Science Unit.

*In Grade 2, sound is presented from a physical science perspective in the Human Body Unit.