

# Scope and Sequence

## Third Edition

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

	Grades			
Life Science Unit	1	2	3	4
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	✓	✓	✓	✓

	Grades			
Physical Science Unit	1	2	3	4
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	✓	✓	✓	✓

	Grades			
Earth and Space Science Unit	1	2	3	4
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	✓	✓	✓	✓

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

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

	Grades			
Crosscutting Concepts	1	2	3	4
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	✓	✓	✓	✓

	Grades			
Science and Engineering Practices	1	2	3	4
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 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.