

## Curriculum Map: 3rd Grade Science 2020-2021

Course: Science3 Sub-topic: General

Grade(s): 3

**Course Description:** Students will build prior knowledge of science content through hands on activities, supplemental current event texts, and guided reading. Science in Third Grade focuses on ecosystems, interdependent relationships between living things, forces and energies, and building persistence and problem solving through STEAM activities and the scientific method.

**Course Textbooks, Workbooks, Materials Citations:** Journeys Leveled Readers  
Journeys Anchor Texts  
Scholastic Science Spin  
Mystery Science  
RAM Studio STEAM resources  
Science Guided Readers

### Unit: Interdependent Relationships in Ecosystems

**Unit Description:** Students will explore various ecosystems and examine all of the components in that ecosystem. Students will discuss connections between living and non living elements, and will discuss the imbalances that occur when elements are missing.

**Unit Essential Questions:** How and why do organisms interact with their environment and what are the effects of these interactions?

**Unit Big Ideas:** Organisms grow, reproduce, and perpetuate their species by obtaining necessary resources through interdependent relationships with other organisms and the physical environment.

**Unit Materials:** Journeys Leveled Readers  
Journeys Anchor Texts  
Scholastic Science Spin  
Mystery Science  
RAM Studio STEAM resources  
Science Guided Readers

**Unit Assignments:** Participation in RAM Studio  
Respond to nonfiction text in guided reading  
Completion of Science Spin  
Participation with Mystery Science

**Unit Key Terminology & Definitions:** Basic needs  
Consumer  
Heterotroph  
Representation  
Stable

This Curriculum Map Unit has no Topics to display

## Unit: Basic Traits of Living Things

**Unit Description:** Students will identify the characteristics of living things, and differentiate between needs and wants. Students will explore the traits of both plants and animals.

**Unit Essential Questions:** How and why do organisms interact with their environment and what are the effects of these interactions?

How do organisms live, grow, respond to their environment, and reproduce?

**Unit Big Ideas:** Organisms grow, reproduce, and perpetuate their species by obtaining necessary resources through interdependent relationships with other organisms and the physical environment.

**Unit Materials:** Journeys Leveled Readers

Journeys Anchor Texts

Scholastic Science Spin

Mystery Science

RAM Studio STEAM resources

Science Guided Readers

**Unit Assignments:** Participation in RAM Studio

Respond to nonfiction text in guided reading

Completion of Science Spin

Participation with Mystery Science

**Unit Key Terminology & Definitions:** Life cycle  
Offspring

Parents

Reproduce

Survival

This Curriculum Map Unit has no Topics to display

## Unit: Life Cycles of Organisms

**Unit Description:** Students will identify and define the stages of life for both plants and animals.

**Unit Essential Questions:** How do organisms live, grow, respond to their environment, and reproduce?

**Unit Big Ideas:** Plants and animals have unique and diverse life cycles that include birth, growth, reproduction, and death.

**Unit Materials:** Journeys Leveled Readers

Journeys Anchor Texts

Scholastic Science Spin

Mystery Science

RAM Studio STEAM resources

Science Guided Readers

**Unit** Participation in RAM Studio  
**Assignments:** Respond to nonfiction text in guided reading  
Completion of Science Spin  
Participation with Mystery Science

**Unit Key Terminology & Definitions:** Life cycle  
Offspring  
Parents  
Reproduce  
Survival

This Curriculum Map Unit has no Topics to display

### **Unit: Electricity and Magnets**

**Unit Description:** Students will explore magnetic and electric energy, and the effect that they have on each other and their conduits.

**Unit Essential Questions:** How is energy transferred and conserved?  
How can one explain and predict interactions between objects within systems?

**Unit Big Ideas:** Interactions of objects or systems of objects can be predicted and explained using the concept of energy transfer and conservation.

Interactions between any two objects can cause changes in one or both.

**Unit Materials:** Journeys Leveled Readers  
Journeys Anchor Texts  
Scholastic Science Spin  
Mystery Science  
RAM Studio STEAM resources  
Science Guided Readers

**Unit Assignments:** Participation in RAM Studio  
Respond to nonfiction text in guided reading  
Completion of Science Spin  
Participation with Mystery Science

**Unit Key Terminology & Definitions:** Magnets  
Pole

Positive  
Negative  
Conduit

This Curriculum Map Unit has no Topics to display

**Unit: STEM/Scientific Method**

**Unit Description:** Students will explore the Scientific Method and components of STEM through hands on activities.

**Unit Essential Questions:** How do scientists make new discoveries?  
How can we solve real world problems in our community?  
How can we create something new that addresses a need in our community?

**Unit Big Ideas:** Scientists approach learning through a methodical Scientific Method.  
Science, Technology, Engineering, Art, and Mathematics are all interdependent components that are needed for twenty-first century learners.

**Unit Materials:** Journeys Leveled Readers  
Journeys Anchor Texts  
Scholastic Science Spin  
Mystery Science  
RAM Studio STEAM resources  
Science Guided Readers

**Unit Assignments:** Participation in RAM Studio  
Respond to nonfiction text in guided reading  
Completion of Science Spin  
Participation with Mystery Science

**Unit Key Terminology & Definitions:** Observation  
Question  
Hypothesis  
Experiment  
Analysis  
Conclusion  
Science  
Technology  
Engineering  
Art  
Mathematics

This Curriculum Map Unit has no Topics to display

### **Unit: Dinosaurs and Fossils**

**Unit Description:** Fossils can be compared with one another and to living organisms according to their similarities and differences.

**Unit Essential Questions:** How can there be so many similarities among organisms yet so many different kinds of plants, animals, and microorganisms?

**Unit Big Ideas:** Biological evolution explains both the unity and diversity of species and provides a unifying principle for the history and diversity of life on Earth.

**Unit Materials:** Journeys Leveled Readers

Journeys Anchor Texts

Scholastic Science Spin

Mystery Science

RAM Studio STEAM resources

Science Guided Readers

**Unit Assignments:** Participation in RAM Studio  
Respond to nonfiction text in guided reading  
Completion of Science Spin  
Participation with Mystery Science

**Unit Key Terminology & Definitions:** Explanation  
Fossil record

This Curriculum Map Unit has no Topics to display

### **Unit: Weather Patterns**

**Unit Description:** Students will be able observe weather patterns and identify when weather is severe. Students will be able describe the effects of severe weather. Students will be able to identify climate as patterns of typical weather conditions over different scales and variations.

**Unit Essential Questions:** How and why is Earth constantly changing?

**Unit Big Ideas:** The Earth is a complex and dynamic set of interconnected systems (e.g. geosphere, hydrosphere, atmosphere, biosphere) that interact over a wide range of temporal and spatial scales.

**Unit Materials:** Journeys Leveled Readers

Journeys Anchor Texts

Scholastic Science Spin

Mystery Science

RAM Studio STEAM resources

Science Guided Readers

**Unit Assignments:** Participation in RAM Studio  
Respond to nonfiction text in guided reading  
Completion of Science Spin  
Participation with Mystery Science

**Unit Key Terminology & Definitions:** Atmosphere  
Climate  
Conditions  
Weather

This Curriculum Map Unit has no Topics to display

**Unit: Forces and Motion**

**Unit Description:** Students will be able to identify types of force and motion, and their relationship with each other.

**Unit Essential Questions:** How can one explain and predict interactions between objects within systems?

**Unit Big Ideas:** Interactions between any two objects can cause changes in one or both.

**Unit Materials:** Journeys Leveled Readers  
Journeys Anchor Texts  
Scholastic Science Spin  
Mystery Science  
RAM Studio STEAM resources  
Science Guided Readers

**Unit Assignments:** Participation in RAM Studio  
Respond to nonfiction text in guided reading  
Completion of Science Spin  
Participation with Mystery Science

**Unit Key Terminology & Definitions:** Acceleration  
Force  
Speed  
Velocity

This Curriculum Map Unit has no Topics to display