

# **Navigation Guide**

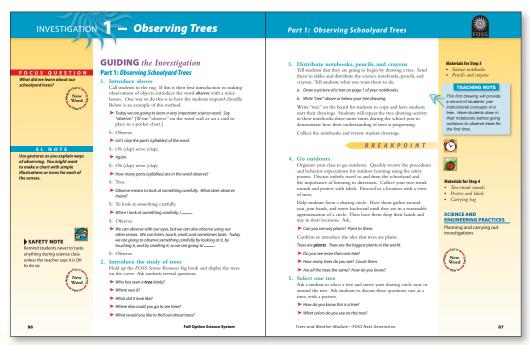
### **How to Review FOSS**

#### **Teacher Editions**

The *Investigations Guide* is a spiral–bound guide containing the active investigations. FOSS lesson plans include:

- Materials used in the current steps
- Key three–dimensional highlights
- Embedded assessment "What to Look For"
- Sense–making discussions

- Strategies to support English learners
- Vocabulary review
- Teaching notes to facilitate instruction



#### **Start your review here:**

- Trees and Weather: pp. 1–3, 69–73, 86–91
- Materials and Motion: pp. 1–3, 73–77, 94–103
- Animals Two by Two: pp. 1–3, 65–67, 84–85

**Teacher Resources** (also online) contains teacher–support chapters on three–dimensional teaching and learning, connections to Common Core, access and equity, and environmental literacy.

#### **Student Books**

The **FOSS Science Resources** student book contains readings developed to reinforce and extend core ideas covered during FOSS active investigations. Readings give students opportunities to:

- Ask and answer questions
- Use evidence to support their ideas
- Use text to acquire information
- Draw information from multiple sources
- Interpret illustrations to build understanding

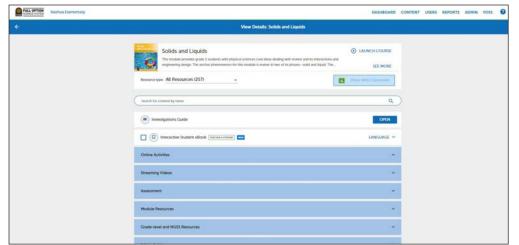


Also available in Spanish and as interactive eBooks.

## **FOSSweb on ThinkLink**

## **Technology for Learning Anywhere**

FOSSweb digital resources are located on ThinkLink, School Specialty's new cloud-based curriculum platform.

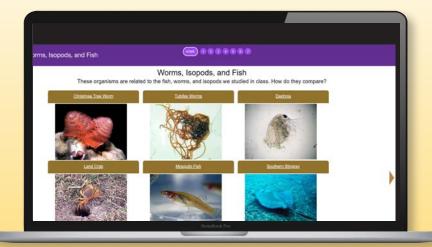


- Supports easy single sign-on and class management with Google classroom and learning management systems.
- Provides easy access to both teacher and student digital resources, including duplication masters, online activities, and streaming videos.

#### Interactive eBooks

Keep your students engaged while teaching literacy skills with interactive FOSS Science Resources eBooks. The eBooks include integrated audio with text syncing and links to online activities and videos that bring the photos to life.





### **Online Activities for Differentiating Instruction**

FOSSweb digital resources provide engaging, interactive online activities that offer additional content and skill support for students.

# **FOSS Modules—Grade K**

**Module Phenomenon and Driving Question** 

## Trees and Weather Module

#### **Anchor phenomenon:**

Trees are plants that live and grow through the seasons

## Module driving questions:

**FOSS Module** 

- What do trees need to live and grow?
- How does weather affect trees?
- What changes do trees cause in their surroundings?

### Trees and Weather



4 investigations **Critical Pathway:** 27 sessions\*\* plus observations through the year

#### **Module Overview/Bundled Performance Expectations**

To a kindergartner, the oak on the corner, the pines at the park, and the mulberry tree at school are all phenomena. Systematic investigation of trees over the seasons provides students with a better understanding of the place of trees in the community. Students observe day—to—day changes in weather over the year and the impact weather has on living things. Students have experiences that help them understand what plants (and animals) need to survive and the relationship between their needs and where they live. By monitoring weather, they find patterns and variations in weather and come to understand the importance of weather forecasts to prepare for severe weather.

**Earth Sciences:** K-ESS2-1, K-ESS2-2\*, K-ESS3-1\*, K-ESS3-2 **Physical Sciences:** K-PS3-1\*; **Life Sciences:** K-LS1-1\*

**ETAS:** K-2 ETS1-2\*

#### Materials and Motion Module

#### **Anchor phenomenon:**

Objects are made of materials and the properties of those materials determine their use; objects can move

## Module driving questions:

- What is made of wood, paper, and fabric?
- How are the properties of those useful to us?
- How can we change the motion of an object?

## Materials and Motion



4 investigations **Critical Pathway:**29 sessions

Students start by investigating materials—wood, paper, and fabric—and determine how material properties determine their use. Students use those materials to engineer structures, applying ideas of energy transfer. Students come to understand that humans use natural resources for everything they do and that people impact the world around them. After building a repertoire of practices with materials and objects, students investigate the effect of pushes and pulls on objects, and apply their intuitive notion of the concept of variables to change the speed and direction of rolling balls and balloon rockets to achieve specific outcomes.

Physical Sciences: K-PS2-1, K-PS2-2, K-PS3-1\*, K-PS3-2

Earth Sciences: K-ESS3-3

**ETAS:** K-2 ETS1-1, K-2 ETS1-2\*, K-2 ETS1-3

#### Animals Two by Two Module

#### **Anchor phenomenon:**

Animals and their survival needs

## Module driving questions:

- How are animal structures similar and different?
- What do animals need to live and grow?

Animals Two by Two



4 investigations **Critical Pathway:**26 sessions

Students have close and personal interactions with common land and water animals—observing and describing the structures of fish, birds, snails, earthworms, and isopods. Classroom habitats are established for some organisms and students find out what the animals need to live and grow. Animals are studied in pairs. Students observe and care for one animal over time, and then they are introduced to another animal similar to the first but with differences in structure and behavior. Close—up photos, some related to animals that students have observed in class and some to animals that are new, enhance the firsthand activities for rich comparisons.

Life Sciences: K-LS1-1\*

Earth Sciences: K-ESS2-2\*, K-ESS3-1\*

- \* These PEs are addressed in two kindergarten modules.
- \*\* A session is 30 minutes in kindergarten.

**FOSS Module** 

FOSS Module

Disciplinary Core Ideas	Science and Engineering Practices	Crosscutting Concepts
ESS2.D: Weather and climate ESS2.E: Biogeology ESS3.A: Natural resources ESS3.B: Natural hazards  LS1.A: Structure and function LS1.C: Organization for matter and energy flow in organisms  PS3.B: Conservation of energy and energy transfer  ETS1.B: Developing possible solutions	<ul> <li>Asking questions and defining problems</li> <li>Developing and using models</li> <li>Planning and carrying out investigations</li> <li>Analyzing and interpreting data</li> <li>Using mathematics and computational thinking</li> <li>Constructing explanations and designing solutions</li> <li>Engaging in argument from evidence</li> <li>Obtaining, evaluating, and communicating information</li> </ul>	<ul> <li>Patterns</li> <li>Cause and effect</li> <li>Scale, proportion, and quantity</li> <li>Systems and system models</li> <li>Structure and function</li> <li>Stability and change</li> </ul>
<ul> <li>PS1.A: Structures and properties of matter</li> <li>PS2.A: Forces and motion</li> <li>PS2.B: Types of interactions</li> <li>PS3.B: Conservation of energy and energy transfer</li> <li>PS3.C: Relationship between energy and forces</li> <li>ESS3.A: Natural resources</li> <li>ESS3.C: Human impacts on Earth systems</li> <li>ETS1.A: Defining and delimiting engineering problems</li> <li>ETS1.B: Developing possible solutions</li> <li>ETS1.C: Optimizing the design solution</li> </ul>	<ul> <li>Asking questions and defining problems</li> <li>Developing and using models</li> <li>Planning and carrying out investigations</li> <li>Analyzing and interpreting data</li> <li>Using mathematics and computational thinking</li> <li>Constructing explanations and designing solutions</li> <li>Engaging in argument from evidence</li> <li>Obtaining, evaluating, and communicating information</li> </ul>	<ul> <li>Patterns</li> <li>Cause and effect</li> <li>Scale, proportion, and quantity</li> <li>Systems and system models</li> <li>Energy and matter</li> <li>Structure and function</li> </ul>
LS1.A: Structure and function LS1.C: Organization for matter and energy in organisms  ESS2.E: Biogeology ESS3.A: Natural resources	<ul> <li>Asking questions and defining problems</li> <li>Developing and using models</li> <li>Planning and carrying out investigations</li> <li>Analyzing and interpreting data</li> <li>Constructing explanations and designing solutions</li> <li>Engaging in argument from evidence</li> <li>Obtaining, evaluating, and communicating information</li> </ul>	<ul> <li>Patterns</li> <li>Cause and effect</li> <li>Systems and system models</li> <li>Structure and function</li> </ul>

# **FOSS Phenomena Storylines**

# Trees and Weather Applications of Science

# **ANCHOR PHENOMENON 1** INVESTIGATIONS 1–2, 4

On a walk around the schoolyard in summer, students notice two different trees. The first tree has lots of big, wide green leaves. The second tree has short, skinny, pointy green leaves. A few months later in fall, the leaves of the first tree are yellow and brown, but the leaves on the second tree look the same as months before. What are the changes that happen to some trees but not others?

#### **CONNECTIONS TO COLLEGE- AND CAREER-READY STANDARDS**

**LS1.A:** Structure and Function; **LS1.C:** Organization for Matter and Energy Flow in Organisms; **ESS2.E:** Biogeology; **ESS3.A:** Natural Resources

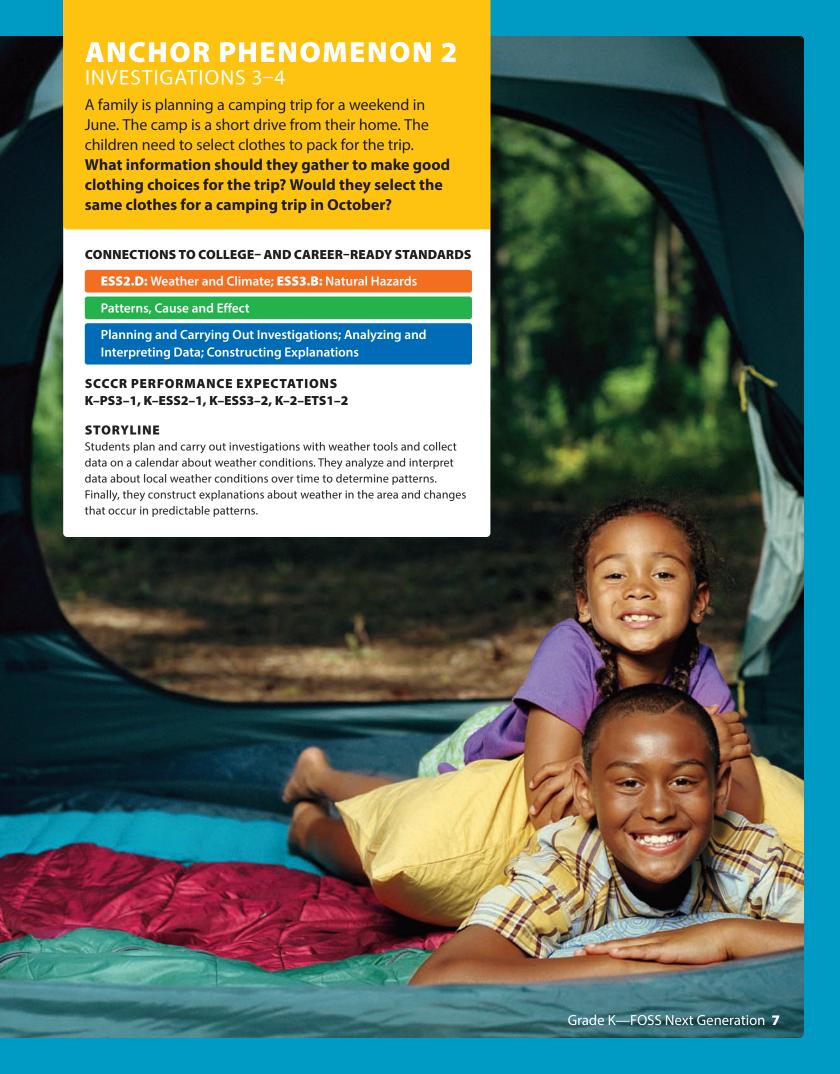
Patterns; Systems and System Models, Structure and Function

Planning and Carrying Out Investigations; Developing and Using Models; Constructing Explanations

## SCCCR PERFORMANCE EXPECTATIONS K-LS1-1, K-ESS2-2, K-ESS3-1

#### **STORYLINE**

Students visit the schoolyard to plan and carry out investigations to determine the observable structures of trees that serve functions for growth and survival. They adopt a tree in the schoolyard and make regular visits to observe and record changes. They construct explanations based on experiences that plant structures are similar, but there are differences in their properties and the structures of trees change predictably through the seasons due to changes in the weather.



# **FOSS Phenomena Storylines**

Materials and Motion Applications of Science



On a sunny day, a student (or teacher) likes to sit outdoors in the sunshine to read and have a cup of cold water to drink. **Design a structure to keep the cup of water cool in sunlight.** 

#### **CONNECTIONS TO COLLEGE- AND CAREER-READY STANDARDS**

**PS3.B:** Conservation of Energy and Energy Transfer; **ESS3.A:** Natural Resources; **ESS3.C:** Human Impacts on Earth Systems; **ETS1.A:** Defining and Delimiting Engineering Problems; **ETS1.B:** Developing Possible Solutions; **ETS1.C:** Optimizing the Design Solution

Patterns; Cause and Effect; Structure and Function

Planning and Carrying Out Investigations; Developing and Using Models; Constructing Explanations and Designing Solutions

## SCCCR PERFORMANCE EXPECTATIONS K-PS3-1, K-PS3-2, K-ESS3-3, K-2-ETS1-1, K-2-ETS1-2, K-2-ETS1-3

#### **STORYLINE**

Students plan and carry out investigations examining the sources, structure, and properties of materials (wood, paper, and fabric). They explore how these materials are used by humans for specific functions. They construct explanations based on experiences about the effect of sunlight on water and design and build a structure using materials to keep water cool when outside on a sunny day.



# **FOSS Phenomena Storylines**

Animals Two by Two Applications of Science

# ANCHOR PHENOMENON 1 INVESTIGATIONS 1-4

A teacher finds a large clear container with a screen cover in a closet. He tells the class the container could be a habitat to observe animals. (It could be an aquarium or terrarium.)

What animals could live in this habitat, and what do the animals need to survive?

#### **CONNECTIONS TO COLLEGE- AND CAREER-READY STANDARDS**

LS1.A: Structure and Function; LS1.C: Organization for Matter and Energy Flow in Organisms; ESS2.E: Biogeology; ESS3.A: Natural Resources

Patterns; Cause and Effect; Structure and Function

Asking Questions; Developing and Using Models; Planning and Carrying Out Investigations; Constructing Explanations; Obtaining, Evaluating, and Communicating Information

## SCCCR PERFORMANCE EXPECTATIONS K-LS1-1, K-ESS2-2, K-ESS3-1

#### **STORYLINE**

Students, with guidance, ask questions and then plan and carry out investigations with peers comparing the structures and behaviors of similar kinds of animals, some that live in water, like fish and snails, and others that live on land, like birds, worms, snails, and isopods. Next, they use models to represent relationships in the natural world (animals in their habitat). Then they construct explanations about the needs of animals based on firsthand observations and media. Finally, students communicate information orally and using models and drawings about the needs of animals in different habitats to live and grow.



# **Critical Pathway**

### **South Carolina Science**

Today, many elementary educators face the reality that time for science instruction is limited. The FOSS developers have determined a Critical Pathway through each module that is faithful to the standards in the time you have to teach with the flexibility to expand or differentiate instruction. There are 82 total sessions for grade K.

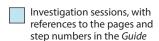
### **TREES AND WEATHER**

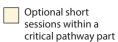
SESSION	INV./PART	CRITICAL PATHWAY	IG PAGES
1	Inv 1.1	Observing Schoolyard Trees, Steps 1–3	86-87
2	Inv 1.1	Observing Schoolyard Trees, Steps 4–11	87-90
3	Inv 1.1	Observing Schoolyard Trees, Steps 12–16	90-91
4	Inv 1.2	Tree Parts, Steps 1–6	95-96
	Inv 1.3	Tree Puzzles, Steps 1–6—Focus on Analysis of Tree Parts and Form (Can be done as free–choice center activity; can also do online on FOSSweb)	99–100
	Inv 1.4	Tree-Silhouette Cards, Steps 1-6—Focus on Analysis of Tree Shape	103–104
5	Inv 1.5	Adopt Schoolyard Trees, Steps 1–8	108–110
6	Inv 1.5	Adopt Schoolyard Trees, Steps 9–14 (Reading and discussion)	111-113
	Inv 1.6	A Tree Comes to Class, Steps 1–9	117–121
7	Inv 1.6	A Tree Comes to Class, Steps 10–11 (Reading)	122-123
8	Inv 2.1	Leaf Walk, Steps 1–7 (Reading and outdoor walk)	139–140
9	Inv 2.1	Leaf Walk, Steps 8–14	140–141
	Inv 2.2	Leaf Shapes, Steps 1–9—Focus on Analysis	145–147
10	Inv 2.3	Comparing Leaves, Steps 1-9 (Step 10 optional)	150-152
	Inv 2.4	Matching Leaf Silhouettes, Steps 1–8 —Focus on Analysis (Can be done as free-choice center activity)	156–157
	Inv 2.5	Leaf Books, Steps 1–5—Focus on Communicating Information	160
11	Inv 2.5	Leaf Books, Steps 6-10 (Reading and Video)	161–162

### CONTACT YOUR SALES REPRESENTATIVE IF YOUR DISTRICT NEEDS A CUSTOMIZED CRITICAL PATHWAY.

### **TREES AND WEATHER (continued)**

SESSION	INV./PART	CRITICAL PATHWAY	IG PAGES
12	Inv 3.1	Weather Calendar, Steps 1–8	179–180
13	Inv 3.1	Weather Calendar, Steps 9–11 (Reading)	181–182
14	Inv 3.2	Recording Temperature, Steps 1–8	186–188
15	Inv 3.2	Recording Temperature, Steps 9–14	188–189
16	Inv 3.3	Wind Direction, Steps 1–2	194–195
17	Inv 3.3	Wind Direction, Steps 3-7	195–197
18	Inv 3.3	Wind Direction, Step 8	197
19	Inv 3.3	Wind Direction, Steps 9–14 (Reading; optional discussion Steps 11–12)	198–200
20	Inv 3.3	Wind Direction, Steps 15–19, 20*	201–202
21	Inv 3.3	Wind Direction, Step 21	202
	Inv 4.1	Fall: What Comes from Trees, Steps 1-4—Focus on Environmental Literacy	218
	Inv 4.2	Fall: Food from Trees, Steps 1–6—Focus on Environmental Literacy	221
22	Inv 4.2	Fall: Food from Trees, Step 7 (Reading)	222-223
23*	Inv 4.3	Fall: Visiting Adopted Trees, Steps 1–6 (Optional Step 6, multimedia)	227–228
	Inv. 4.4	Winter: Evergreen Hunt, Steps 1–7—Focus on Analysis	232-233
24	Inv 4.4	Winter: Evergreen Hunt, Steps 8–9 (Reading)	234
	Inv 4.5	Winter: Twigs Steps 1–7—Focus on Environmental Literacy	237–238
25*	Inv 4.6	Winter: Visiting Adopted Trees, Steps 1–8	241–243
	Inv 4.7	Spring: Forcing Twigs, Steps 1–3—Focus on Environmental Literacy	246
	Inv 4.8	Spring: Bark Hunt, Steps 1–5—Focus on Analysis	250–251
26*	Inv 4.9	Spring: Visiting Adopted Trees, Steps 1–7	254-255
27	Inv 4.9	Spring: Visiting Adopted Trees, Steps 8–10 (Reading and Video)	256–257





Entire parts of the investigation that are not included in this critical pathway; these activities provide additional opportunities to deepen the learning experience

### **MATERIALS AND MOTION**

SESSION	INV./PART	CRITICAL PATHWAY	IG PAGES
1	Inv 1.1	Observing Wood, Steps 1–9	94-98
2	Inv 1.1	Observing Wood, Steps 10–19	98-100
3	Inv 1.1	Observing Wood, Steps 20–23 (Reading and discussion)	101–103
4	Inv 1.2	Wood and Water, Steps 1–12	107–110
5	Inv 1.2	Wood and Water, Steps 13–18	110–111
6	Inv 1.3	Testing a Raft, Steps 1–12	115–117
7	Inv 1.3	Testing a Raft, Steps 13–21 (Optional Step 22)	118–120
	Inv 1.4	Sanding Wood, Steps 1–12—Focus on Engineering	125–127
	Inv 1.5	Sawdust and Shavings, Steps 1–17—Focus on Engineering	131–134
	Inv 1.6	Making Particleboard, Steps 1–12—Focus on Engineering	138–140
	Inv 1.6	Making Particleboard, Steps 13–16—Focus on Engineering	140–141
	Inv 1.7	Making Plywood, Steps 1-7—Focus on Engineering	144–145
	Inv 1.7	Making Plywood, Steps 8–12—Focus on Engineering (Includes reading. The reading can be used in Inv 3.6, Session 20)	146–147
8	Inv 2.1	Paper Hunt, Steps 1–10	168–170
9	Inv 2.1	Paper Hunt, Steps 11–16 (Reading and discussion; online activity)	171–173
	Inv 2.2	Using Paper, Steps 1–19—Focus on Analyzing (Can be done as free–choice center activity)	176–180
10	Inv 2.3	Paper and Water, Steps 1–7	184–185
11	Inv 2.3	Paper and Water, Steps 8–15	186–187
12	Inv 2.4	Paper Recycling, Steps 1–8	191–193
13	Inv 2.4	Paper Recycling, Steps 9–11	194–195
	Inv 2.5	Papier Mâché, Steps 1–8—Focus on Engineering and Art	199–200
	Inv 2.5	Papier Mâché, Steps 9–14—Focus on Engineering and Art	201–202

### **MATERIALS AND MOTION (continued)**

SESSION	INV./PART	CRITICAL PATHWAY	IG PAGES
14	Inv 3.1	Fabric Hunt, Steps 1-5, 9, 12, 15-19	223–226
	Inv 3.1	Fabric Hunt, Steps 6–8, 10–11, 13–14 —Focus on Analyzing	223–225
	Inv 3.2	Taking Fabric Apart, Steps 1–9—Focus on Engineering	229–230
15	Inv 3.2	Taking Fabric Apart, Steps 10–12, 15 (Reading and discussion)	231–233
	Inv 3.2	Taking Fabric Apart, Steps 13–14—Focus on Engineering with Media	232–233
16	Inv 3.3	Water and Fabric, Steps 1–10	236–237
17	Inv 3.4	Graphing Fabric Uses, Steps 1–6 (Optional Step 7)	240-241
18	Inv 3.4	Graphing Fabric Uses, Steps 8–10 (Reading and discussion)	242-243
	Inv 3.5	Reuse and Recycling Resources, Steps 1–9—Focus Environmental Literacy	247–249
	Inv 3.5	Reuse and Recycling Resources, Steps 10–14—Focus Environmental Literacy	249–250
19	Inv 3.6	Building Structures, Steps 1–8	254–255
20	Inv 3.6	Building Structures, Steps 9–12	256
21	Inv 3.6	<b>Building Structures, Steps 13–20</b> (Use Reading from Inv 1.7, pp. 147)	257-258
22	Inv 3.6	Building Structures, Steps 21–26	258–260
23	Inv 4.1	Pushes and Pulls, Steps 1–15	277–280
24	Inv 4.1	Pushes and Pulls, Steps 16–18 (Reading and discussion)	281–282
25	Inv 4.2	Colliding Objects, Steps 1–8	286-288
26	Inv 4.2	Colliding Objects, Steps 9–15	288-290
27	Inv 4.2	Colliding Objects, Steps 16–18 (Reading and discussion)	291–292
28	Inv 4.3	Rolling Outdoors, Steps 1–6	296–298
29	Inv 4.3 Inv 4.4	Rolling Outdoors, Steps 7–11 Balloon Rockets, Step 12	298–299 305
	Inv 4.4	Balloon Rockets, Steps 1–11—Focus on Analyzing	303–305

Investigation sessions, with references to the pages and step numbers in the *Guide* 

### **ANIMALS TWO BY TWO**

SESSION	INV./PART	CRITICAL PATHWAY	IG PAGES
1	Inv 1.1	The Structure of Goldfish, Steps 1–6	84-85
2	Inv 1.2	Caring for Goldfish, Steps 1–6	88-89
3	Inv 1.2	Caring for Goldfish, Steps 7–11	90
4	Inv 1.3	Goldfish Behavior, Steps 1–8	93-95
5	Inv 1.4	Comparing Goldfish to Guppies, Steps 1–5	98-99
6	Inv 1.4	Comparing Guppies to Goldfish, Steps 7–14 (Two readings)	100-103
7	Inv 1.5	Comparing Schoolyard Birds , Steps 1–6	107-108
8	Inv 1.5	Comparing Schoolyard Birds, Steps 7–13	108-110
9	Inv 1.5	Comparing Schoolyard Birds, Steps 13–20	110-112
10	Inv 1.5	Comparing Schoolyard Birds, Steps 21–24 (Reading)	113-114
11	Inv 2.1	Observing Water Snails, Steps 1–8	133–135
12	Inv 2.1	Observing Water Snails, Steps 9–13	135–136
13	Inv 2.2	Shells, Steps 1–9	139–141
	Inv 2.3	Land Snails, Steps 1–6—Focus on Analysis and Environmental Literacy	145–146
	Inv 2.3	Land Snails, Steps 7–17—Focus on Analysis	146-148
14	Inv 2.3	Land Snails, Steps 18–23 (Reading)	149-151

<sup>\*</sup>Indicates the need to allow for growth time

### **ANIMALS TWO BY TWO (continued)**

SESSION	INV./PART	CRITICAL PATHWAY	IG PAGES
15	Inv 3.1	The Structure of Redworms, Steps 1–11	172–173
16	Inv 3.2	Redworm Behavior, Steps 1–13	177–179
17*	Inv 3.2	Redworm Behavior, Steps 14–16	179–180
18*	Inv 3.2	Redworm Behavior, Steps 17–19	180–181
	Inv 3.3	Comparing Redworms to Night Crawlers, Steps 1–8—Focus on Analysis	184–185
19	Inv 3.3	Comparing Redworms to Night Crawlers, Steps 10–14 (Reading)	186–189
20	Inv 4.1	Isopod Observations, Steps 1–13	205–207
21	Inv 4.2	Identifying Isopods, Steps 1–9	210-211
22	Inv 4.2	Identifying Isopods, Steps 10–14	212-214
	Inv 4.3	Isopod Movement, Steps 1-4—Focus on Environmental Literacy	218
	Inv 4.3	Isopod Movement, Steps 5–10—Focus on Analysis	219–220
23	Inv 4.3	Isopod Movement, Steps 11–14 (Reading)	221–223
24	Inv 4.4	Animals Living Together, Steps 1–10	227-228
25	Inv 4.4	Animals Living Together, Steps 11–12 (Reading)	229
26	Inv 4.4	Animals Living Together, Steps 13–14 (Reading)	230
	Inv 4.4	Animals Living Together, Step 15—Focus on Analysis with Media	230

<sup>\*</sup>Indicates the need to allow for growth time

# **Diverse Learning Needs**

## **Designed for All Learners**

### **Access and Equity**

The FOSS Program has been designed to maximize the science learning opportunities for all students, including those who have traditionally not had access to or have not benefited from equitable science experiences—students with special needs, ethnically diverse learners, English learners, students living in poverty, girls, and advanced and gifted learners. FOSS is rooted in a 30-year tradition of multisensory science education and informed by recent research on UDL and culturally and linguistically responsive teaching and learning. See the **Access and Equity** chapter on FOSSweb for strategies and suggestions.

#### **English Language Development (ELD)**



# **Strategies for Effective Learning**

### **Engaging Students**

#### **English Language Art Connections**

FOSS leverages the natural connection between science and language arts. Students read articles and think critically to enhance their understanding. Students practice ELA skills as well as scientific thinking by organizing their thoughts in a science notebook.



### **Engineering**

FOSS provides meaningful engineering design challenges to students across the grade bands. Students take on the role of scientists to problem-solve and then take on the role of engineers to design and innovate.





#### **Environmental Literacy**

FOSS throws open the classroom door and takes students outdoors to apply scientific principles to natural systems.

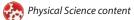
### **Custom Professional Learning**

FOSS can help you build a customized professional learning plan for your district, through its experienced network of consultants to facilitate workshops and sustain the progress of your implementation through ongoing support.

## **SOUTH CAROLINA FOSS NEXT GENERATION K-8 SCOPE AND SEQUENCE**

Grade		Integrated Middle Grades				Digital Only Investigations		
			& 🍖 Waves		Planetary Science		Diversity of Life Online (Investigation 6)	
6-8	Populations and Ecosystems			A Cal Interactio	ns	Gravity and Kinetic Energy	(A) (A) Variables and Design	Earth History Online (Investigation 8)
	<b>(♣) (♣) (♣)</b> Weather and Wa	ater		History	D	iversity of Life	Human Systems Interactions	Wave Models

\*Half-length courses









Grade	Physical Science	Earth Science	Life Science			
5	Mixtures and Solutions	Earth and Sun	Living Systems			
4	Energy	Soils, Rocks, and Landforms	Environments			
3	Motion and Matter	Water and Climate	Structures of Life			
2	Solids and Liquids	Pebbles, Sand, and Silt	Insects and Plants			
1	Sound and Light	Air and Weather	Plants and Animals			
K	Materials and Motion Trees and Weather Animals Two by Tw					
PreK	Observing Nature					