

# SCIENCE Pacing Guide – Kindergarten

## FOSS – Unit Trees and Weather

**K2 Foss Webinar** <https://youtu.be/lcRNtRC9VV8>

[Asynchronous and Synchronous teaching](#)

Science should be taught every day

Unit	Title	Pacing
1	Trees and Weather	12 Weeks
2	Materials in Motion	13 Weeks
3	Animals 2x2	13 Weeks

Date/Unit	Topic	Lesson	Assessment Benchmark Date
9/19	<b>Trees &amp; Weather</b>	<b>Introduction to the Topic and Expectations</b>	
	Trees & Weather	1-1 Observing Schoolyard	
	Trees & Weather	1-1 Observing Schoolyard	
	Trees & Weather	1-2. Tree Parts	
	Trees & Weather	1-2. Tree Parts	

	Trees & Weather	1-2. Tree Parts	
9/26	Trees & Weather	1-3. Tree Puzzles	
	Trees & Weather	1-3. Tree Puzzles	
	Trees & Weather	1-3. Tree Puzzles	
	Trees & Weather	1-4. Tree-Silhouette Cards	
	Trees & Weather	1-4. Tree-Silhouette Cards	
	Trees & Weather	1-4. Tree-Silhouette Cards	
10/3	Trees & Weather	1-5. Adopt Schoolyard Trees	
	Trees & Weather	1-5. Adopt Schoolyard Trees	
	Trees & Weather	1-5. Adopt Schoolyard Trees	
	Trees & Weather	1-6. A Tree Comes to Class	

Date	Topic	Lesson	Assessment Benchmark Date
	Trees & Weather	1-6. A Tree Comes to Class	
	Trees & Weather	1-6. A Tree Comes to Class	
10/10	<b>Observing Leaves</b>	<b>Introduction to the Topic and Expectations</b>	
	Observing Leaves	2-1. Leaf Walk	
	Observing Leaves	2-1. Leaf Walk	
	Observing Leaves	2-2. Leaf Shapes	

	Observing Leaves	2-2. Leaf Shapes	
10/17	Observing Leaves	2-2. Leaf Shapes	
	Observing Leaves	2-3. Comparing Leaves	
	Observing Leaves	2-3. Comparing Leaves	
	Observing Leaves	2-3. Comparing Leaves	
	Observing Leaves	2-4. Matching Leaf Silhouettes	
	Observing Leaves	2-4. Matching Leaf Silhouettes	
10/24	Observing Leaves	2-4. Matching Leaf Silhouettes	
	Observing Leaves	2-5. Leaf Books	
	Observing Leaves	2-5. Leaf Books	
	<b>Observing Weather</b>	<b>Introduction to the Topic and Expectations</b>	
	Observing Weather	3-2. Recording Temperature Seasons	
	Observing Weather	3-3. Wind Direction	
10/31	Trees through the Seasons	4-1. Fall: What Comes from Trees?	
	Trees through the Seasons	4-2. Fall: Food from Trees	

<b>Date</b>	<b>Topic</b>	<b>Lesson</b>	<b>Assessment Benchmark Date</b>
	Trees through the Seasons	4-3. Fall: Visiting Adopted Trees	
	Trees through the Seasons	4-4. Winter: Evergreen Hunt	
	Trees through the Seasons	4-5. Winter: Twigs	
11/7	Trees through the Seasons	4-6. Winter: Visiting Adopted Trees	
	<b>Trees &amp; Weather</b>	<b>Skill: Project</b>	
	<b>Trees &amp; Weather</b>	<b>Skill: Project</b>	
	<b>Review of Material</b>	<b>Review of Material</b>	
	<b>Assessment</b>	<b>Assessment</b>	<b>I Check in LinkIt</b>
<b>END OF FIRST MARKING PERIOD</b>			

# SCIENCE Pacing Guide – Kindergarten

## FOSS – Unit Materials In Motion

**K2 Foss Webinar** <https://youtu.be/lcRNtRC9VV8>

Date	Topic	Lesson	Assessment Benchmark Date
Week of 12/5	Getting to Know Wood	Observing Wood	
	Getting to Know Wood	Wood and Water	
	Getting to Know Wood	Testing a Raft	
	Getting to Know Wood	Sanding Wood	
	Getting to Know Wood	Sawdust and Shavings	
	Getting to Know Wood	Making Particle Board	
	Getting to Know Wood	Making Plywood	

**SCIENCE Pacing Guide – Kindergarten**

# FOSS – Unit Materials In Motion

## K2 Foss Webinar <https://youtu.be/lcRNtRC9VV8>

Date	Topic	Lesson	Assessment Benchmark Date
	<b>Review of Material</b>	<b>Review of Material</b>	
	<b>Assessment</b>	<b>Assessment</b>	
	Getting to Know Paper	Paper Hunt	
	Getting to Know Paper	Using Paper	
	Getting to Know Paper	Paper and Water	
	Getting to Know Paper	Paper Recycling	
	Getting to Know Paper	Papier-Mache	
	<b>Review of Material</b>	<b>Review of Material</b>	
	<b>Assessment</b>	<b>Assessment</b>	
	Getting to Know Fabric	Feely Boxes and Fabric Hunt	
	Getting to Know Fabric	Taking Fabric Apart	
	Getting to Know Fabric	Water and Fabric	
	Getting to Know Fabric	Graphing Fabric Uses	
	Getting to Know Fabric	Reuse and Recycle Resources	

	Getting to Know Fabric	Building Structures	
	Review of Material	Review of Material	
	Assessment	Assessment	
	Getting Things To Move	Pushes and Pulls	
	Getting Things To Move	Colliding Objects	
	Getting Things To Move	Rolling Outdoors	
	Getting Things To Move	Balloon Rockets	
	Review of Material	Review of Material	
	Assessment	Assessment	

## SCIENCE Pacing Guide – Kindergarten

### FOSS – Animals Two By Two

**K2 Foss Webinar** <https://youtu.be/lcRNtRC9VV8>

Date	Topic	Lesson	Assessment Benchmark Date
Week of 3/10	Goldfish and Guppies	Structure of a Goldfish	
	Goldfish and Guppies	Caring for Goldfish	
	Goldfish and Guppies	Goldfish Behavior	
	Comparing Goldfish to Guppies	Read” Fish Same and Different” <a href="https://www.fossweb.org/">https://www.fossweb.org/</a>	

		com/delegate/ssi-foss -kitaboo-reader?dDoc Name=K27331	
	Comparing Schoolyard Birds	Birds Outdoors <a href="https://www.fossweb.com/delegate/ssi-foss-kitaboo-reader?dDocName=K27331">https://www.fossweb. com/delegate/ssi-foss -kitaboo-reader?dDoc Name=K27331</a>	
	Observing Birds	The Urban Habitat of Peregrine Falcons <a href="#">Video (new)</a> <a href="#">(fossweb.com)</a>	



# SCIENCE Pacing Guide – First Grade

## FOSS – Air and Weather

See Fossweb for specific resources and information

[Asynchronous and Synchronous teaching](#)

**K2 Foss Webinar** <https://youtu.be/lcRNtRC9VV8>

Science should be taught every day

Unit	Title	Pacing
1	Air and Weather	12 Weeks
2	Sound and Light	13 Weeks
3	Plants and Animals	13 Weeks

Date/Unit	Topic	Lesson	Assessment Benchmark Date
Week of the 9/19	<b>Air &amp; Weather</b>	<b>Take time to Introduce the Topic and Expectations</b>	
	Skill: Exploring Air	1-1 Air is There	
	Skill: Exploring Air	1-1 Air is There	
	Skill: Exploring Air	1-2 Parachutes	
	Skill: Exploring Air	1-2 Parachutes	
	Skill: Exploring Air	1-3 Pushing Air	
	Skill: Exploring Air	1-3 Pushing Air	
	Skill: Exploring Air	1-4 Air and Water	

	Skill: Exploring Air	1-4 Air and Water	
	Skill: Exploring Air	1-4 Air and Water	
	Skill: Exploring Air	1-5 Balloon Rockets	
	Skill: Exploring Air	1-5 Balloon Rockets	
Week of the 9/26	<b>Skill: Observing the Sky</b>	<b>What is the Sky and What is Weather ?</b>	
	Skill: Observing the Sky	2-1 Weather Calendars	
	Skill: Observing the Sky	2-1 Weather Calendars	
	Skill: Observing the Sky	2-1 Weather Calendars	

Date	Topic	Lesson	Assessment Benchmark Date
	Skill: Observing the Sky	2-2 Measuring Temperature and Daylight	
	Skill: Observing the Sky	2-2 Measuring Temperature and Daylight	
	Skill: Observing the Sky	2-2 Measuring Temperature and Daylight	
	Skill: Observing the Sky	2-3 Watching Clouds	
	Skill: Observing the Sky	2-3 Watching Clouds	

	Skill: Observing the Sky	2-3 Watching Clouds	
	Skill: Observing the Sky	2-4 Observing the Moon	
	Skill: Observing the Sky	2-4 Observing the Moon	
	Skill: Observing the Sky	2-4 Observing the Moon	
10/10	<b>Skill: Wind Explorations</b>	<b>What is Wind ?</b>	
	Skill: Wind Explorations	3-1 Bubbles in the Wind	
	Skill: Wind Explorations	3-2 Wind Speed	
	Skill: Wind Explorations	3-2 Wind Speed	
	Skill: Wind Explorations	3-2 Wind Speed	
	Skill: Wind Explorations	3-3 Pinwheels	
	Skill: Wind Explorations	3-3 Pinwheels	
	Skill: Wind Explorations	3-3 Wind Vanes	
	Skill: Wind Explorations	3-3 Wind Vanes	
	Skill: Wind Explorations	3-3 Kites	
	Skill: Wind Explorations	3-3 Kites	
	Skill: Wind Explorations	3-3 Kites	

Date	Topic	Lesson	Assessment Benchmark Date
	Looking for Change	What are Seasons ?	
	Looking for Change	4-1 Change over a Month	
	Looking for Change	4-2 Daylight through the Year	
	Looking for Change	4-2 Daylight through the Year	
	Looking for Change	4-3 Comparing the Seasons	
	Looking for Change	4-3 Comparing the Seasons	
	Air & Weather	Skill: Project	
11/28	Review	Assessment	Unit Assessment and Icheck in Linklt!
Date/Unit	Topic	Lesson	Assessment Benchmark Date
January 17, 2023	Sound and Vibration	Active Investigation 1 Part 1	
		Part 1: Making Sounds	
		Part 2: Hearing Sounds	
		Part 3: Outdoor Sounds	

Date/Unit	Topic	Lesson	Assessment Benchmark
January 23, 2023	Pre-Survey		iCheck 1
January 27, 2023	<b>INV. 2: Changing Sounds</b>		
		Part 1: Changing Volume	
		Part 2: Changing Pitch	

Date	Topic	Lesson	Assessment Benchmark Date
		Part 3: Spoon-Gong Systems	
		Part 4: Sound Challenges	
			I Check – 2
February 7	<b>INV. 3: Light and Shadows</b>	Part 1: Making Shadows	
		Part 2: Sun and Shadows	

		Part 3: Light and Materials	
			I Check – 3

Date	Topic	Lesson	Assessment Benchmark Date
	<b>INV. 4: Light and Mirrors</b>		
		Part 1: Mirrors and Light Beams	
		Part 2: Reflections	
		Part 3: Eyes and Seeing	
		Part 4: Designing with Light	
March 3, 2023			I Check – 4
<b>Plants and Animals</b>			
Date/Unit	Topic	Lesson	Assessment Benchmark Date
<i>March 7</i>	<b>INV. 1: Grass and Grain Seeds</b>	<b>Active Investigation 1 Part 1</b>	
Plants and Animals			
		Part 1: Lawns	
		Part 2: Mowing the Lawn	

Date/Unit	Topic	Lesson	Assessment Benchmark
	Part 3: Wheat		
	Part 4: Variations in Plants and Animals		
	<b>INV. 2: Stems</b>		
		Part 1: Rooting Stem Cuttings	

Date	Topic	Lesson	Assessment Benchmark Date
		Part 3: New Plants from Cuttings	
			I Check – 2
April 7	<b>I INV. 3: Terrariums</b>	Part 1: Setting Up Terrariums	
		Part 2: Sun and Shadows	



		Part 3: Habitat Match	
		Part 4: Squirrel Behavior	
			I Check – 3

Date	Topic	Lesson	Assessment Benchmark Date
	INV. 4: Growth and Change		
		Part 1: Planting Bulbs	
		Part 2: Planting Roots	
		Part 3: Plant and Animal Growth	
June 15			I Check – 4

**Grade Level: 2nd**

**Subject : Science**  
**Pebbles Sand and Silt**

**Please review FOSS Virtual Resources in Fossweb.com**

**Here is link to matrix**

[https://docs.google.com/spreadsheets/d/1GvSnPmQnUnFJ1qG9VW0AQecsV24tSVzPFAyrPX1\\_ax8/edit?usp=sharing](https://docs.google.com/spreadsheets/d/1GvSnPmQnUnFJ1qG9VW0AQecsV24tSVzPFAyrPX1_ax8/edit?usp=sharing)

Science should be taught every day

Unit	Title	Pacing
1	Pebbles Sand and Silt	12 Weeks
2	Solids and Liquids	13 Weeks
3	Insects and Plants	13 Weeks

Date	Topic	Lesson	Assessment Benchmark Date
9/8	First Days of School Norms	Welcome Icebreakers, Getting to know you, rules, expectations, journaling, Foss resources, canvas etc	
9/9	First Days of School Norms	Welcome Icebreakers, Getting to know you, rules, expectations, journaling, Foss resources, canvas etc	

9/10	First Days of School Norms	Welcome Icebreakers, Getting to know you, rules, expectations, journaling, Foss resources, canvas etc	
9/11	First Days of School Norms	Welcome Icebreakers, Getting to know you, rules, expectations, journaling, Foss resources, canvas etc	
9/19	First Rocks	Inv 1.1 Three Rocks	
	First Rocks	Inv 1.2 Washing three Rocks	
	First Rocks	Inv 1.3 First Sorting	
	First Rocks	Inv 1.4 Start a Rock Collection	
	First Rocks	Inv 1.4 Start a Rock Collection	
	First Rocks	Inv 1.5 Sorting Activities	
	<b>First Rocks</b>		<b>Inv 1 I check</b>
	<b>First Rocks</b>	<b>Go over Icheck Results</b>	
Week of 9/26	River Rocks	2.1 Screening River Rocks	
	River Rocks	2.1 Screening River Rocks	
	River Rocks	2.2 River Rocks By Size	
	River Rocks	2.2 River Rocks By Size	
	River Rocks	2.3 Sand and Silt	
	River Rocks	2.3 Sand and Silt	
	River Rocks	2.4 Exploring Clay and Landforms	
	River Rocks	2.4 Exploring Clay and Landforms	
	River Rocks		Inv 2 I check

Week of 10/3	<b>River Rocks</b>	<b>Go Over ICheck Results</b>	
	Using Rocks	3.1 Rocks in use	
	Using Rocks	3.2 Observing Sand Paper	

	Using Rocks	3.3 Sand Sculptures	
	Using Rocks	3.4 Clay Beads	
	Using Rocks	3.4 Clay Beads	
	Using Rocks	3.5 Making Bricks	
	Using Rocks	3.5 Making Bricks	

	<b>Using Rocks</b>		<b>Inv 3 I check</b>
	<b>Using Rocks</b>	<b>Go Over I check results</b>	
Week of 11/7	Soil and Water	4.1 Homemade Soil	
	Soil and Water	4.1 Homemade Soil	
	Soil and Water	4.1 Homemade Soil	
	Soil and Water	4.2 Local Soil	
	Soil and Water	4.2 Local Soil	
	Soil and Water	4.2 Local Soil	
	Soil and Water	4.3 Natural Sources of Water	
	Soil and Water	4.3 Natural Sources of Water	
	Soil and Water	4.4 Land and Water	
	Soil and Water	4.4 Land and Water	
	Soil and Water		Inv 4 I check



**Grade Level: 2nd**

**Subject : Science  
Solids and Liquids Foss Kit**

**See Fossweb for specific resources and information**

**COVID-19 Remote Learning Resources SY 2020-21**

[https://docs.google.com/spreadsheets/d/14pWncsoOsDJLNx56M2G\\_mGrjGsnW5XngV\\_eRw1zCTEnA/edit#gid=0](https://docs.google.com/spreadsheets/d/14pWncsoOsDJLNx56M2G_mGrjGsnW5XngV_eRw1zCTEnA/edit#gid=0)

**K2 Foss Webinar** <https://youtu.be/lcRNtRC9VV8>

<b>Date</b>	<b>Topic</b>	<b>Lesson</b>	<b>Assessment Benchmark Date</b>
12/5	Solids	Inv 1.1 Solid Objects	
	Solids	Inv 1.1 Solid Objects Continued	
	Solids	Inv 1.1 Soil Objects Continued	
	Solids	Inv 1.2 Solid Materials	
	Solids	Inv 1.2 Solid Materials Continued	
	Solids	Inv 1.3 Group Solid Objects	
12/12	Solids	Inv 1.3 Group Solid Objects Continued	
	Solids	Inv 1.4 Construct with Solids	
	Solids	Inv 1.4 Construct with Solids Continued	
	Solids	Inv 1.4 Outdoor Solids	
	Solids	Inv 1.4 Outdoor Solids Continued	
	Solids		Icheck

Date	Topic	Lesson	Assessment Benchmark Date
	<b>Solids</b>	<b>Go Over ICHECK Results</b>	
	Liquids	Inv 2.1 Liquids in a Bottle	
	Liquids	Inv 2.1 Liquids in a Bottle Continued	
	Liquids	Inv 2.2 Properties of Liquids	
	Liquids	Inv 2.2 Properties of Liquids Continued	
	Liquids	Inv 2.3 Liquid Level	
	Liquids	Inv 2.3 Liquid Level Continued	
	Liquids	Inv 2.4 Puddles	
	Liquids	Inv 2.4 Puddles Continued	
	<b>Liquids</b>		<b>ICHECK</b>
	<b>Liquids</b>	<b>Go over ICHECK results</b>	
1/9	Bits and Pieces	Inv 3.1 Solids in Containers	
	Bits and Pieces	Inv 3.1 Solids in Containers Continued	
	Bits and Pieces	Inv 3.2 Separating Soup Mix	
	Bits and Pieces	Inv 3.2 Separating Soup Mix Continued	
	Bits and Pieces	Inv 3.3 Solids in Bottles	
	Bits and Pieces	Inv 3.3 Solids in Bottles Continued	
	Bits and Pieces	Inv 3.4 Beads and Screens	
1/16	Bits and Pieces	Inv 3.4 Beads and Screens Continued	
	Bits and Pieces	Inv 3.5 Spills	



	Bits and Pieces	Inv 3.5 Spills Continued	
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Date	Topic	Lesson	Assessment Benchmark Date
1/30	<b>Bits and Pieces</b>		<b>ICHECK</b>
	<b>Bits and Pieces</b>	<b>Go Over Results of ICHECK</b>	
	Solids, Liquids and Water	Inv 4.1 Solids and Water	
	Solids, Liquids and Water	Inv 4.1 Solids and Water Continued	
	Solids, Liquids and Water	Inv 4.2 Liquids and Water	
	Solids, Liquids and Water	Inv 4.2 Liquids and Water Continued	
	Solids, Liquids and Water	Inv 4.3 Toothpaste Investigation	
	Solids, Liquids and Water	Inv 4.3 Toothpaste Investigation Continued	
	Solids, Liquids and Water	Inv 4.4 Changing Properties	
	Solids, Liquids and Water	Inv 4.4 Changing Properties	
	Solids, Liquids and Water	Inv 4.5 Tea Time	
	Solids, Liquids and Water	Inv 4.5 Tea Time	
	<b>Solids, Liquids and Water</b>		<b>Inv 5 Icheck</b>
2/27	<b>Solids, Liquids and Water</b>	<b>Go over ICheck results</b>	

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**Grade Level: 3rd**

**Subject : Science**

**Water and Climate Foss Kit**

**[COVID-19 Remote Learning Resources SY 2020-21](#)**

Foss Webinar 3-5 <https://youtu.be/3Q1JBF-BnO8>

Google Doc Worksheets

[https://drive.google.com/drive/folders/1fVFfGSqCbjlBXcG-5d\\_FRCCG2jfepKc](https://drive.google.com/drive/folders/1fVFfGSqCbjlBXcG-5d_FRCCG2jfepKc)

Science should be taught every day

Unit	Title	Pacing
1	Water and Climate	12 Weeks
2	Motions and Matter	13 Weeks
3	Structures of Life	13 Weeks

Date	Topic	Lesson	Assessment Benchmark Date
9/8	First Days of School Norms	Welcome Icebreakers, Getting to know you, rules, expectations, journaling, FOSS	

		resources, canvas etc	
9/9	First Days of School Norms	Welcome Icebreakers, Getting to know you, rules, expectations, journaling, FOSS resources, canvas etc	
9/10	First Days of School Norms	Welcome Icebreakers, Getting to know you, rules, expectations, journaling, FOSS resources, canvas etc	
9/11	First Days of School Norms	Welcome Icebreakers, Getting to know you, rules, expectations, journaling, FOSS, canvas etc	
9/19	Water Observations	Inv 1.1 Drops of Water	
	Water Observations	Inv 1.1 Drops of Water Continued	
	Water Observations	Inv 1.1 Soil Composition Continued	
	Water Observations	Inv 1.2 Water on a Slope	
	Water Observations	Inv 1.2 Water on a Slope Continued	
	Water Observations	Inv 1.3 Soaking Sponges	
	Water Observations	Inv 1.3 Soaking Sponges Continued	
	Water Observations	Inv 1.4 Water in Nature	
	Water Observations	Inv 1.4 Water in Nature Continued	
	Water Observations		Icheck
9/26	Water Observations	Go over Icheck results	
	Hot and Cold Water	Inv 2.1 Measuring Temperature	

Date	Topic	Lesson	Assessment Benchmark Date
10/3	Hot and Cold Water	Inv 2.1 Measuring Temperature Continued	
	Hot and Cold Water	Inv 2.2 Build a Thermometer	

	Hot and Cold Water	Inv 2.2 Build a Thermometer Continued	
	Hot and Cold Water	Inv 2.3 Sinking and Floating	
	Hot and Cold Water	Inv 2.3 Sinking and Floating Continued	
	Hot and Cold Water	Inv 2.4 Ice as Water	
	Hot and Cold Water	Inv 2.4 Ice as Water Continued	
	Hot and Cold Water	Inv 2.5 Ice out Doors	
	Hot and Cold Water	Inv 2.5 Ice out Doors Continued	
	Hot and Cold Water		ICHECK
	Hot and Cold Water	Go over ICHECK results	
	Weather and Water	Inv 3.1 Measuring Weather	
10/17	Weather and Water	Inv 3.1 Measuring Weather Continued	
	Weather and Water	Inv 3.2 Evaporation	
	Weather and Water	Inv 3.2 Evaporation Continued	
	Weather and Water	Inv 3.3 Surface Area	
	Weather and Water	Inv 3.3 Surface Area Continued	
	Weather and Water	Inv 3.4 Evaporation Locations	
	Weather and Water	Inv 3.4 Evaporation Locations Continued	
	Weather and Water	Inv 3.4 Condensation	
	Weather and Water	Inv 3.4 Condensation Continued	

Date	Topic	Lesson	Assessment Benchmark Date
11/2	Weather and Water		ICHECK
	Weather and Water	Gio Over Results of ICHECK	
	Seasons and Climate	Inv 4.1Seasonal Weather	
	Seasons and Climate	Inv 4.1Seasonal Weather	

		Continued	
	Seasons and Climate	Inv 4.2 Describing Climate	
	Seasons and Climate	Inv 4.2 Describing Climate Continued	
	Seasons and Climate	Inv 4.3 Weather and Related Natural Hazards	
11/16	Seasons and Climate	Inv 4.3 Weather and Related Natural Hazards Continued	
END OF FIRST MARKING PERIOD			

11/17	Seasons and Climate		Inv 4 Icheck
11/18	Seasons and Climate	Review Results of Icheck	
	Water Works	Inv 5.1 Water in Earth Materials	
	Water Works	Inv 5.1 Water in Earth Materials	
	Water Works	Inv 5.2 Water in Soil	
	Water Works	Inv 5.2 Water in Soil	
	Water Works	Inv 5.3 Water Wheels	
	Water Works	Inv 5.3 Water Wheels	
	Water Works		Inv 5 Icheck
12/5	Water Works	Go Over results	

**Grade Level: 3rd**

**Subject : Science**

**Motion and Matter**

[http://google.com/sps://docs.google.com/spreadsheets/d/1qTo5PQP2koml\\_3ksiPeqdaxh42MnxSK8DtXgnPC-5YE/edit?usp=sharing](http://google.com/sps://docs.google.com/spreadsheets/d/1qTo5PQP2koml_3ksiPeqdaxh42MnxSK8DtXgnPC-5YE/edit?usp=sharing)

<b>Date</b>	<b>Topic</b>	<b>Lesson</b>	<b>Assessment Benchmark Date</b>
1/4	Forces	Inv 1.1 Two Forces	
	Forces	Inv 1.1 Two Forces	
	Forces	Inv 1.2 Magnetic Force Inv	
	Forces	Inv 1.2 Magnetic Force Inv	
	Forces	Inv 1.3 More about Forces	
	Forces		Inv 1 Icheck
	Forces	Go Over Icheck Results	
	Patterns of Motion	Inv 2.1 Wheel and Axel Systems	
	Patterns of Motion	Inv 2.1 Wheel and Axel Systems	
	Patterns of Motion	Inv 2.2 Predicting Motion and New Systems	
1/19	Patterns of Motion	Inv 2.2 Predicting Motion and New Systems	
	Patterns of Motion	Inv 2.3 Twirly Birds	
	Patterns of Motion	Inv 2.3 Twirly Birds	
	Patterns of Motion	Inv 2.4 Tops	

	Patterns of Motion		Inv 2 Icheck
	Patterns of Motion	Go Over results	
	Engineering	Inv 3.1 From Here to There	
	Engineering	Inv 3.1 From Here to There	
1/27	Engineering	Inv 3.2 Distance Challenge	
	Engineering	Inv 3.2 Distance Challenge	
	Engineering	Inv 3.3 Investigating Start Position	
	Engineering	Inv 3.3 Investigating Start Position	
	Engineering	Inv 3.4 Cart Tricks	
	Engineering	Inv 3.4 Cart Tricks	
2/6	Engineering		Inv 3 Icheck
	Engineering	Go Over I check Results	
	Mixtures	Inv 4.1 Mixing Solids and Liquids	
	Mixtures	Inv 4.1 Mixing Solids and Liquids	
	Mixtures	Inv 4.2 Reactions	
2/20	Mixtures	Inv 4.2 Reactions	
	Mixtures	Inv 4.3 Metric Field Day	
	Mixtures	Inv 4.3 Metric Field Day	
	Mixtures	Inv 4.3 Metric Field Day	
	Mixtures		Inv 4 Icheck
	Mixtures	Go Over results	



3/5			
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**Grade Level: 4th**

**Subject : Science**

**Soils, Rocks, and Landforms Foss Kit**

**COVID-19 Remote Learning Resources SY 2020-21**

<https://docs.google.com/spreadsheets/d/1oKdcnblqKdX88l5XOsBCQJQG9J0Qi7QG4P>

[NCwBKhYMg/edit#gid=674853564](https://docs.google.com/spreadsheets/d/1oKdcnblqKdX88l5XOsBCQJQG9J0Qi7QG4P/edit#gid=674853564)

Foss Webinar 3-5 <https://youtu.be/3Q1JBF-BnO8>

Science should be taught every day

Unit	Title	Pacing
1	Soils, Rocks and Landforms	13 Weeks
2	Energy	13 Weeks
3	Environments	12 Weeks

Date	Topic	Lesson	Assessment Benchmark Date
9/8	First Days of School Norms	Welcome Icebreakers, Getting to know you, rules, expectations, Journaling,	

		FOSS resources, canvas etc	
9/9	First Days of School Norms	Welcome Icebreakers, Getting to know you, rules, expectations, Journaling, FOSS resources, resources, canvas etc	
9/10	First Days of School Norms	Welcome Icebreakers, Getting to know you, rules, expectations, Journaling, FOSS resources, resources, canvas etc	
9/11	First Days of School Norms	Welcome Icebreakers, Getting to know you, rules, expectations, Journaling, FOSS resources, resources, canvas etc	
9/19	Soils and Weathering	Inv 1.1 Soil Composition	
	Soils and Weathering	Inv 1.1 Soil Composition Continued	
	Soils and Weathering	Inv 1.1 Soil Composition Continued	
	Soils and Weathering	Inv 1.2 Physical Weathering	
	Soils and Weathering	Inv 1.2 Physical Weathering Continued	
	Soils and Weathering	Inv 1.3 Chemical Weathering	
	Soils and Weathering	Inv 1.3 Chemical Weathering Continued	
	Soils and Weathering	Inv 1.3 Chemical Weathering Continued	
	Soils and Weathering		Icheck
	Soils and Weathering	Go over Icheck results	
	Landforms	Inv 2.1 Erosion and Deposition	

	Landforms	Inv 2.1 Erosion and Deposition Continued	
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Date	Topic	Lesson	Assessment Benchmark Date
	Landforms	Inv 2.2 Stream Table	
	Landforms	Inv 2.2 Stream Table Continued	
	Landforms	Inv 2.3 School Yard and Erosion Deposition	
	Landforms	Inv 2.3 School Yard and Erosion Deposition Continued	
	Landforms	Inv 2.4 Fossil Evidence	
	Landforms	Inv 2.4 Fossil Evidence Continued	
	Landforms		ICHECK
	Landforms	Go over ICHECK results	
	Mapping Earth's Surface	Inv 3.1 Making a Topographic Map	
	Mapping Earth's Surface	Inv 3.1 Making a Topographic Map Continued	
	Mapping Earth's Surface	Inv 3.2 Drawing a Profile	
	Mapping Earth's Surface	Inv 3.2 Drawing a Profile Continued	
	Mapping Earth's Surface	Inv 3.3 Mount St. Helens Case Study	
	Mapping Earth's Surface	Inv 3.3 Mount St. Helens Case Study Continued	
	Mapping Earth's Surface	Inv 3.4 Rapid Changes	

	Mapping Earth's Surface	Inv 3.4 Rapid Changes Continued	
	Mapping Earth's Surface		ICHECK
	Mapping Earth's Surface	Go over ICHECK results	
	Natural Resources	Inv 4.1 Introduction to Natural Resources	
	Natural Resources	Inv 4.1 Introduction to Natural Resources Continued	
	Natural Resources	Inv 4.1 Introduction to Natural Resources	

Date	Topic	Lesson	Assessment Benchmark Date
	Natural Resources	Inv 4.2 Making Concrete	
	Natural Resources	Inv 4.2 Making Concrete Continued	
	Natural Resources	Inv 4.2 Making Concrete Continued	
	Natural Resources	Inv 4.2 Making Concrete Continued	
	Natural Resources	Inv 4.3 Earth Materials in Use	
	Natural Resources	Inv 4.3 Earth Materials in Use Continued	
	Natural Resources	Inv 4.3 Earth Materials in Use	
11/16	Natural Resources		ICHECK

**Grade Level: 4th**

**Subject : Science**

**Energy**

[COVID-19 Remote Learning Resources SY 2020-21](#)

Foss Webinar 3-5 <https://youtu.be/3Q1JBF-BnO8>

Google Doc Worksheets

[https://drive.google.com/drive/folders/1fVFfGSqCbjIBXcG-5d\\_FRCCG2jfepKc](https://drive.google.com/drive/folders/1fVFfGSqCbjIBXcG-5d_FRCCG2jfepKc)

<b>Date</b>	<b>Topic</b>	<b>Lesson</b>	<b>Assessment Benchmark Date</b>
12/5	Energy and Circuits	1.1 Lighting a Bulb	
	Energy and Circuits	1.1 Lighting a Bulb	
	Energy and Circuits	1.2 Conductors and Circuits	
	Energy and Circuits	1.2 Conductors and Circuits	
	Energy and Circuits	1.3 Series and Parallel Circuits	
	Energy and Circuits	1.3 Series and Parallel Circuits	

	Energy and Circuits	1.4 Solving the String of Lights Problem	
	Energy and Circuits	1.4 Solving the String of Lights Problem	
	Energy and Circuits		ICHECK INV 1
	Energy and Circuits	Go over Icheck results	
	The Force of	2.1 Magnets and Materials	

	Magnetism		
	The Force of Magnetism	2.1 Magnets and Materials	
	The Force of Magnetism	2.2 Magnetic Fields	
	The Force of Magnetism	2.2 Magnetic Fields	
	The Force of Magnetism	2.3 Magnetic Force	

	The Force of Magnetism	2.3 Magnetic Force	
	The Force of Magnetism		ICHECK Inv 2
	The Force of Magnetism	Go over Icheck results	
	Electromagnets	3.1 Building an Electromagnet	
	Electromagnets	3.1 Building an Electromagnet	
	Electromagnets	3.2 Changing the Strength	
	Electromagnets	3.2 Changing the Strength	
	Electromagnets	3.3 Reinventing the Telegraph	
	Electromagnets	3.3 Reinventing the Telegraph	

	Electromagnets		ICHECK Inv 3
	Electromagnets	Go over Icheck results	
	Energy Transfer	4.1 Presence of Energy	
	Energy Transfer	4.1 Presence of Energy	
	Energy Transfer	4.2 Rolling Down Slopes	
	Energy Transfer	4.2 Rolling Down Slopes	

	Energy Transfer	4.3 Collisions	
	Energy Transfer	4.3 Collisions	
	Energy Transfer		ICHECK Inv 4
	Energy Transfer	Go over Icheck results	
	Waves	5.1 Forms of Waves	
	Waves	5.1 Forms of Waves	
	Waves	5.2 Light Travels	
3/1	Waves	5.2 Light Travels	
	Waves	5.3 Engineering with Solar Cells	
	Waves	5.3 Engineering with Solar Cells	
	Waves		ICHECK
	Waves	Go over results	



**Grade Level: 5th**

**Subject : Science**

**Earth and Sun Foss Kit**

**COVID-19 Remote Learning Resources SY 2020-21**

[https://docs.google.com/spreadsheets/d/1IINKEtNLWXKw1Kqz5Hr44l471WGC4\\_jwy2hDvupuqGY/edit](https://docs.google.com/spreadsheets/d/1IINKEtNLWXKw1Kqz5Hr44l471WGC4_jwy2hDvupuqGY/edit)

**Foss Webinar 3-5** <https://youtu.be/3Q1JBF-BnO8>

Google docs Sheets

[https://drive.google.com/drive/folders/1fVFfGSqCbjlBXcG-5d\\_\\_FRCCG2jfepKc](https://drive.google.com/drive/folders/1fVFfGSqCbjlBXcG-5d__FRCCG2jfepKc)

Unit	Title	Pacing
1	Earth and Sun	12 Weeks
2	Mixtures and Solutions	14 Weeks
3	Living Systems	13 Weeks

Date	Topic	Lesson	Assessment Benchmark Date
9/8	First Days of School Norms	Welcome Icebreakers, Getting to know you, rules, expectations, Journaling, FOSS resources, canvas etc	
9/9	First Days of School Norms	Welcome Icebreakers, Getting to know you,	

		rules, expectations, Journaling, FOSS resources, canvas etc	
9/10	First Days of School Norms	Welcome Icebreakers, Getting to know you, rules, expectations, Journaling, FOSS resources canvas etc	
9/11	First Days of School Norms	Welcome Icebreakers, Getting to know you, rules, expectations Journaling, FOSS resources, canvas etc	
9/19	The Sun	Inv 1.1 Shadow Shifting	
	The Sun	Inv 1.1 Shadow Shifting Continued	
	The Sun	Inv 1.2 Sun Tracking Steps 1-5, 8-12, 14, 19, 20, 22-24	
	The Sun	Inv 1.2 Sun Tracking Continued	
	The Sun	Inv 1.3 Day and Night	
	The Sun	Inv 1.3 Day and Night Continued	
	The Sun		ICHECK
	The Sun	Go Over ICHECK Results	
	Planetary Systems	Inv 2.1 Night Sky Observations	
	Planetary Systems	Inv 2.1 Night Sky Observations Continued	
	Planetary Systems	Inv 2.2 How Big and How Far	
9/30	Planetary Systems	Inv 2.2 How Big and How Far Continued	
	Planetary Systems	Inv 2.3 Phases of The Moon	

<b>Date</b>	<b>Topic</b>	<b>Lesson</b>	<b>Assessment Benchmark Date</b>
	Planetary Systems	Inv 2.3 Phases of The Moon Continued	
	Planetary Systems	Inv 2.4 The Solar System	
	Planetary Systems	Inv 2.4 The Solar System Continued	
	Planetary Systems	Inv 2.5 Stars	
	Planetary Systems	Inv 2.5 The Solar System Continued	
	Planetary Systems		ICheck
	Planetary Systems	Go Over ICHECK Results	
	Earth's Atmosphere	Inv 3.1 The Air Around Us	
	Earth's Atmosphere	Inv 3.1 The Air Around Us Continued	
	Earth's Atmosphere	Inv 3.2 The Atmosphere	
	Earth's Atmosphere	Inv 3.2 The Atmosphere Continued	
	Earth's Atmosphere	Inv 3.3 Local Weather	
	Earth's Atmosphere	Inv 3.3 Local Weather Continued	
10/22	Earth's Atmosphere		ICHECK
	Earth's Atmosphere	Go over results of ICheck	
	Heating Earth	Inv 4.1 Heating Earth Materials	
	Heating Earth	Inv 4.1 Heating Earth Materials Continued	
	Heating Earth	Inv 4.2 Conduction	
	Heating Earth	Inv 4.2 Conduction Continued	
	Heating Earth	Inv 4.3 Convection	
	Heating Earth	Inv 4.3 Convection Continued	

	Heating Earth	Inv 4.4 Color and Energy Transfer	
	Heating Earth	Inv 4.4 Color and Energy Transfer Continued	

Date	Topic	Lesson	Assessment Benchmark Date
	Heating Earth		ICHECK
	Heating Earth	Go Over I check Results	
	Water Planet	Inv 5.1 Condensation	
	Water Planet	Inv 5.1 condensation Continued	
	Water Planet	Inv 5.2 Evaporation	
	Water Planet	Inv 5.2 Evaporation	
	Water Planet	Inv 5.3 Water Cycle	
	Water Planet	Inv 5.3 Water Cycle	
	Water Planet	Inv 5.4 Climate	
	Water Planet	Inv 5.4 Climate	
	Water Planet		Icheck 5
	Water Planet	Go over results	

**Grade Level: 5th**

**Subject : Science**

**Mixtures and Solutions**

<https://docs.google.com/spreadsheets/d/1oKdcnblqKdX88l5XOsBCQJQG9J0Qi7QG4PNCwBKHYMg/edit#gid=674853564>

**Foss Webinar 3-5** <https://youtu.be/3Q1JBF-BnO8>

**Science should be taught every day**

<b>Date</b>	<b>Topic</b>	<b>Lesson</b>	<b>Assessment Benchmark Date</b>
1/4	Separating Mixtures	Inv 1.1 Making and Separating Mixtures	
	Separating Mixtures	Inv 1.1 Making and Separating Mixtures	
	Separating Mixtures	Inv 1.2 Preparing a Salt Solution	
	Separating Mixtures	Inv 1.2 Preparing a Salt Solution	
	Separating Mixtures	Inv 1.3 Separating a Dry Mixture	
	Separating Mixtures	Inv 1.3 Separating a Dry Mixture	
	Separating Mixtures	Inv 1.4 Outdoor Solutions	
	Separating Mixtures	Inv 1.4 Outdoor Solutions	
	Separating Mixtures		Inv 1 Icheck
	Separating Mixtures	Go Over I check Results	
	Developing Models	Inv 2.1 Black Boxes	

	Developing Models	Inv 2.1 Black Boxes	
	Developing Models	Inv 2.1 Black Boxes	
	Developing Models	Inv 2.2 Drought Stopper	
	Developing Models	Inv 2.2 Drought Stopper	
	Developing Models	Inv 2.3 Models for Change in Properties	
	Developing Models	Inv 2.3 Models for Change in Properties	
	Developing Models		Inv 2 I check
	Developing Models	Go Over I check results	
2/1	Concentration	Inv 3.1 Soft Drink Recipes	
	Concentration	Inv 3.1 Soft Drink Recipes	
	Concentration	Inv 3.2 Salt Concentration	
	Concentration	Inv 3.2 Salt Concentration	
	Concentration	Inv 3.3 Mystery Solution	
	Concentration	Inv 3.3 Mystery Solution	
	Concentration	Inv 3.4 Liquid Layers	
	Concentration	Inv 3.4 Liquid Layers	
	Concentration		Inv 3 I check
	Concentration	Go Over I check results	
	Reaching Saturation	Inv 4.1 Salt Saturation	
	Reaching Saturation	Inv 4.1 Salt Saturation	
	Reaching Saturation	Inv 4.2 Epsom Salt Saturation	
	Reaching Saturation	Inv 4.2 Epsom Salt Saturation	
	Reaching Saturation	Inv 4.3 The Saturation Puzzle	
	Reaching Saturation	Inv 4.3 The Saturation Puzzle	
	Reaching Saturation	Inv 4.4 What's in your Water	
	Reaching Saturation	Inv 4.4 What's in your Water	

	Reaching Saturation	Inv 4.4 What's in your Water	
	Reaching Saturation		Inv 4 Icheck
		Go Over I check Results	
	Fizz Quiz	Inv 5.1 Chemical Reactions	
	Fizz Quiz	Inv 5.1 Chemical Reactions	

	Fizz Quiz	Inv 5.2 Reaction Products	
	Fizz Quiz	Inv 5.2 Reaction Products	
	Fizz Quiz	Inv 5.3 Reaction in a Zipbag	
	Fizz Quiz	Inv 5.3 Reaction in a Zipbag	
	Fizz Quiz		Inv 5 ickcheck
3/12	Fizz Quiz	Go over i check results	





**Grade Level: 6th**

**Subject : Science**

**Weather and Water Foss Kit**

**COVID-19 Remote Learning Resources SY 2020-21**

**[FOSS Virtual Support Doc](#)**

**FOSSWEBINAR 6-8 <https://youtu.be/fw3Rc0WtlLo>**

**Google doc Sheets**

**[https://drive.google.com/drive/u/0/folders/10THD\\_ZWQQA3mucwc64z-GXRoWTOX3HIs](https://drive.google.com/drive/u/0/folders/10THD_ZWQQA3mucwc64z-GXRoWTOX3HIs)**

**Science should be taught every day**

Unit	Title	Pacing
1	Weather and Water	14 Weeks
2	Waves	13 Weeks
3	Diversity of Life	12 Weeks

Date	Topic	Lesson	Assessment Benchmark Date
9/8	First Days of School Norms	Welcome Icebreakers, Getting to know you, rules, expectations, Journaling FOSS resources, canvas etc	
9/9	First Days of School Norms	Welcome Icebreakers, Getting to know you, rules, expectations, , Journaling	

		FOSS resources, canvas etc	
9/10	First Days of School Norms	Welcome Icebreakers, Getting to know you, rules, expectations, Journaling FOSS resources, canvas etc	
9/11	First Days of School Norms	Welcome Icebreakers, Getting to know you, rules, expectations, , Journaling FOSS resources, canvas etc	
9/19	What is Weather	Inv 1.1 Intro to Weather Steps 2-8	
	What is Weather	Inv 1.1 Intro to Weather Steps 9-17	
	What is Weather	Inv 1.1 The Air Around Us Steps 18-29	
	What is Weather	Inv 1.2 The Air Around Us Steps 1-14	
	What is Weather	Inv 1.2 The Air Around Us Steps 15-27	
	What is Weather	Inv 1.3 Earth's Atmosphere Steps 1-11	
	What is Weather	Inv 1.3 Earth's Atmosphere Steps 12-17	
	What is Weather	Inv 1.3 Earth's Atmosphere Steps 18	ICHECK
	What is Weather	Inv 1.3 Earth's Atmosphere Steps 19	
	What is Weather	Inv 1.3 Earth's Atmosphere Steps 20	
	Air Pressure and Wind	Inv 2.1 Air Pressure Inquiry Steps 1-8	
	Air Pressure and Wind	Inv 2.1 Air Pressure Inquiry Steps 9-21	
	Air Pressure and Wind	Inv 2.2 Pressure Maps Step 1-16	
10/1	Air Pressure and	Inv 2.2 Pressure Maps	ICHECK

	Wind	Step 17	
	Air Pressure and Wind	Inv 2.2 Pressure Maps Step 18	
	Convection	Inv 3.1 Density of Fluids Step 1-10	

Date	Topic	Lesson	Assessment Benchmark Date
	Convection	Inv 3.1 Density of Fluids Step 11-23	
	Convection	Inv 3.1 Density of Fluids Step 24-33	
	Convection	Inv 3.2 Convection in Water Step 1-15	
	Convection	Inv 3.2 Convection in Water Step 16-25	
	Convection	Inv 3.3 Convection in Air Step 1-17	
	Convection	Inv 3.3 Convection in Air Step 18	ICHECK
	Convection	Inv 3.3 Convection in Air Step 19	
	Radiation	Inv 4.1 Latitude Steps 1-9	
	Radiation	Inv 4.1 Latitude Steps 10-19	
	Radiation	Inv 4.2 Solar Angle Steps 1-15	
	Radiation	Inv 4.2 Solar Angle Steps 16-25	

	Radiation	Inv 4.3 Heating Earth Steps 1-10	
	Radiation	Inv 4.3 Heating Earth Steps 11-22	
	Radiation	Inv 4.3 Heating Earth Steps 23	ICHECK
	Radiation	Inv 4.3 Heating Earth Steps 24	
	Conduction	Inv 5.1 Fluid Conduction Steps 1-8	
	Conduction	Inv 5.1 Fluid Conduction Steps 9-22	
	Conduction	Inv 5.2 Insulation Steps 1-10	
11/2	Conduction	Inv 5.2 Insulation Steps 11-22	

Date	Topic	Lesson	Assessment Benchmark Date
11/4	Conduction	Inv 5.3 Home Design Steps 14 23-33	
	Conduction	Inv 5.3 Home Design Steps 14 23-33	
	Conduction	Inv 5.3 Home Design Steps 14 23-33	
	Air Flow	Inv 6.1 Atmospheric Heating Steps 1-9	
	Air Flow	Inv 6.2 Local Winds Steps 1-15	
	Air Flow	Inv 6.3 Global Winds Steps 1-17	
	Air Flow	Inv 6.3 Global Winds Steps 18-25	

11/17	Air Flow	Inv 6.3 Global Winds Steps 26	ICHECK
END OF FIRST MARKING PERIOD			
	Air Flow	Review ICheck Results	
	Water in the Air	7.1 Is Water Really There Steps 1-11	
	Water in the Air	7.1 Is Water Really There Steps 12-20	
	Water in the Air	7.2 Phase Change Energy Transfer Steps 1-11	
	Water in the Air	7.2 Phase Change Energy Transfer Steps 12-20	
	Water in the Air	7.3 Clouds and Precipitation Steps 1-9	
	Water in the Air	7.3 Clouds and Precipitation Steps 10-20	
	Water in the Air	7.3 Clouds and Precipitation Steps 21-27	

	Water in the Air		Inv 7 Icheck
	Water in the Air	Go over results of Icheck	
	Water Planet	8.1 Water Cycle Simulations Steps 1-15	
	Water Planet	8.1 Water Cycle Simulations Steps 16-25	
	Water Planet	8.2 Ocean Current Steps 1-11	
	Water Planet	8.3 Ocean Climate Step 1-7	
	Water Planet	8.3 Ocean Climate Step 8-17	
	Water Planet		Inv 8 Icheck

	Water Planet	Go over icheck results	
	Climate Over Time	9.1 Climate Change Steps 1-18	
	Climate Over Time	9.2 The Role of CO2 Steps 1-10	
	Climate Over Time	9.2 The Role of CO2 Steps 11-21	
	Climate Over Time	9.3 Climate in the News Step 1-19	
	Climate Over Time	9.3 Climate in the News Step 20	
	Climate Over Time		I CHECK Inv 9
	Climate Over Time	Go over results	