


Grade 1 Science (Master)

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September 2020

Content	Skills	Learning Targets	Assessment	Resources & Technology
<p>CEQ</p> <p>1. What is in our ground?</p> <p>2. What are the basic needs of a living organism?</p> <p>3. How do living organisms change throughout their life cycle?</p> <p>UEQ</p> <p>1. How are rocks different and how are they the same?</p> <p>2. How can rocks be sorted and separated?</p> <p>3. What earth material is smaller than sand?</p> <p>4. What is in soil and what are the different parts of soil?</p> <p>Pebbles, Sand, and Silt </p> <p>a. Part 1: Investigation 1 Three Rocks</p>	<p>a. Part1: Three Rocks</p> <p>1. Students will observe the six rocks and try to identify how many different kinds of rocks there are.</p> <p>2. Students will rub the rocks together to find if a rock is soft, hard, chips or scratches, or makes rock dust.</p>	<ul style="list-style-type: none"> I can sort rocks into different groups and explain why. I can identify an earth material that is smaller than sand. I can identify different types of soils. I can tell how rocks are the same and different. 	<p>a. Part 1: Three Rocks</p> <p>1. CFA: Observe if students can match the rock samples and identify that there are three types of rock.</p> <p>2. CFA: In science notebooks, students will draw a picture of the three types of rock and record a characteristic next to each</p>	<p>Pebbles, Sand, and Silt</p> <p>Pebble, Sand, and Silt Smart Notebook File in first grade science shared folder</p> <p>Student Sheets No. 1-9 in first grade science shared folder</p> <p>CA=Rubrics in shared folder</p> <p>Science Stories in first grade science shared folder</p> <p>Tech Integration= Pebbles, Sand, Silt: Find Earth Materials - www.fossweb.com</p> <p>http://www.smarttech.com/us/Re...</p> <p>" target=_blank">www.smarttech.com/us/Re...</p> <p>souces/SMART+Exchange : Downloaded Files are in the Science Shared Folder under Extra Resources</p>

			rock (ex. hard, soft, scratches, makes rock dust).	a. Part 1: Three Rocks Key Vocabulary: rock, dust, and geologist
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October 2020

Content	Skills	Learning Targets	Assessment	Resources & Technology
<p>CEQ</p> <p>1. What is in our ground?</p> <p>2. What are the basic needs of a living organism?</p> <p>3. How do living organisms change throughout their life cycle?</p> <p>UEQ</p> <p>1. How are rocks different and how are they the same?</p> <p>2. How can rocks be sorted and separated?</p> <p>3. What earth material is smaller than sand?</p> <p>4. What is in soil and what are the different parts of soil?</p>	<p>a. Part1: Three Rocks</p> <p>1. Students will observe the six rocks and try to identify how many different kinds of rocks</p>	<ul style="list-style-type: none"> I can sort rocks into different groups and explain why. I can identify an earth material that is smaller than sand. I can identify different types of soils. I can tell how rocks are the same and different. 	<p>a. Part 1: Three Rocks</p> <p>1. CFA: Observe if students can match the rock samples and identify that there are three types of</p>	<p>Pebbles, Sand, and Silt</p> <p>Pebble, Sand, and Silt Smart Notebook File in first grade science shared folder</p> <p>Student Sheets No. 1-9 in first grade science shared folder</p> <p>CA=Rubrics in shared folder</p> <p>Science Stories in first grade science shared folder</p> <p>Tech Integration= Pebbles, Sand, Silt: Find Earth Materials - www.fossweb.com http://www.smarttech.com/us/Re... " target=_blank></p>

<p>Pebbles, Sand, and Silt </p> <p>a. Part 1: Investigation 1 Three Rocks</p>	<p>there are. 2. Students will rub the rocks together to find if a rock is soft, hard, chips or scratches, or makes rock dust.</p>		<p>rock. 2. CFA: In science notebooks, students will draw a picture of the three types of rock and record a characteristic next to each rock (ex. hard, soft, scratches, makes rock dust).</p>	<p>www.smarttech.com/us/Resources/SMART+Exchange : Downloaded Files are in the Science Shared Folder under Extra Resources</p> <p>a. Part 1: Three Rocks Key Vocabulary: rock, dust, and geologist</p>
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November 2020

Content	Skills	Learning Targets	Assessment	Resources & Technology
<p>UEQ 1. How are rocks different and how are they the same? 2. How can rocks be sorted? 3. What earth material is smaller than sand? 4. What is in soil and what are the different parts of soil?</p> <p>b. Part 2: Washing Three Rocks</p>	<p>b. Part 2: Washing Three Rocks 1. Observe with a magnifying glass the difference qualities in</p>	<ul style="list-style-type: none"> I can sort rocks into different groups and explain why. I can identify an earth material that is smaller than sand. I can identify different types of soils. I can tell how rocks are the same and different. 	<p>b. Part 2: Washing Three Rocks</p> <p>CSA=Rock Record - Student Sheet No. 2</p>	<p>Pebbles, Sand, and Silt Pebble, Sand, and Silt Smart Notebook File in first grade science shared folder Student Sheets No. 1-9 in first grade science shared folder CA=Rubrics in shared folder Science Stories in first grade science shared folder Tech Integration= Pebbles, Sand, Silt: Find Earth Materials -</p>


				(Foss Science Stories) d. Part 4: Sorting Games Key Vocabulary: flat, round, striped, sort
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November 2020

Content	Skills	Learning Targets	Assessment	Resources & Technology
<p>UEQ</p> <p>1. How are rocks different and how are they the same?</p> <p>2. How can rocks be sorted?</p> <p>3. What earth material is smaller than sand?</p> <p>4. What is in soil and what are the different parts of soil?</p> <p>b. Part 2: Washing Three Rocks</p>	<p>b. Part 2: Washing Three Rocks</p> <p>1. Observe with a magnifying glass the difference qualities in the three rocks when they are washed.</p> <p>2. Identify the rock names.</p> <p>3. Record the rock names</p>	<ul style="list-style-type: none"> I can sort rocks into different groups and explain why. I can identify an earth material that is smaller than sand. I can identify different types of soils. I can tell how rocks are the same and different. 	<p>b. Part 2: Washing Three Rocks</p> <p>CSA=Rock Record - Student Sheet No. 2</p>	<p>Pebbles, Sand, and Silt</p> <p>Pebble, Sand, and Silt Smart Notebook File in first grade science shared folder</p> <p>Student Sheets No. 1-9 in first grade science shared folder</p> <p>CA=Rubrics in shared folder</p> <p>Science Stories in first grade science shared folder</p> <p>Tech Integration= Pebbles, Sand, Silt: Find Earth Materials - www.fossweb.com</p> <p>www.smarttech.com/us/Re souces/SMART+Exchange : Downloaded Files are in the Science Shared Folder</p>

				round, striped, sort
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December 2020

Content	Skills	Learning Targets	Assessment	Resources & Technology
<p>UEQ</p> <p>1. How are rocks different and how are they the same?</p> <p>2. How can rocks be sorted?</p> <p>3. What earth material is smaller than sand?</p> <p>4. What is in soil and what are the different parts of soil?</p> <p>e. Part 5: Start a rock collection</p> <p>Engineering Lesson  Part 1: Creating the Tool</p>	<p>e. Part 5: Start a rock collection (Optional)</p> <p>1. Identify that rocks are all around us.</p> <p>Part 1: Identify engineering problem.</p>	<ul style="list-style-type: none"> I can sort rocks into different groups and explain why. I can identify an earth material that is smaller than sand. I can identify different types of soils. I can tell how rocks are the same and different. 	<p>e. Part 5: Start a rock collection</p> <p>1. CFA: Students choose and evaluate the properties of one rock. Then students draw and label with words/color. Student Sheet No. 2</p> <p>Part 1: CFA: Students draw a diagram of their plan to solve the problem.</p>	<p>Pebbles, Sand, and Silt</p> <p>Pebble, Sand, and Silt Smart Notebook File in first grade science shared folder</p> <p>Student Sheets No. 1-9 in first grade science shared folder</p> <p>CA=Rubrics in shared folder</p> <p>Science Stories in first grade science shared folder</p> <p>Tech Integration= Pebbles, Sand, Silt: Find Earth Materials - www.fossweb.com</p> <p>www.smarttech.com/us/Resources/SMART+Exchange : Downloaded Files are in the Science Shared Folder under Extra Resources</p> <p>e. Part 5: Start a rock collection</p>

Part 2: Experimenting with Tool	Part 2: Experiment with engineering tool.	<ul style="list-style-type: none"> I can create a tool that will identify and sort different rock sizes. 	Part 2: CFA: Students follow the plan and make modifications for improvement in their plan drawing.	<p>Key Vocabulary: collection, museum</p> <p>1. <u>Exploring Rocks and Colorful Rocks</u> (Foss Science Stories)</p> <p>Part 1 and Part 2 Engineering Plan in Science Staff Shared Folder</p>
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December 2020

Content	Skills	Learning Targets	Assessment	Resources & Technology
UEQ 1. How are rocks different and how are they the same? 2. How can rocks be sorted? 3. What earth material is smaller than sand? 4. What is in soil and what are the different parts of soil?	e. Part 5: Start a rock collection (Optional)	<ul style="list-style-type: none"> I can sort rocks into different groups and explain why. I can identify an earth material that is smaller than sand. I can identify different types of soils. I can tell how rocks are the same and different. 	e. Part 5: Start a rock collection	Pebbles, Sand, and Silt Pebble, Sand, and Silt Smart Notebook File in first grade science shared folder Student Sheets No. 1-9 in first grade science shared folder CA=Rubrics in shared folder Science Stories in first grade science shared folder Tech Integration= Pebbles, Sand, Silt: Find Earth Materials - www.fossweb.com

<p>e. Part 5: Start a rock collection</p> <p>Engineering Lesson  Part 1: Creating the Tool</p> <p>Part 2: Experimenting with Tool</p>	<p>1. Identify that rocks are all around us.</p> <p>Part 1: Identify engineering problem.</p> <p>Part 2: Experiment with engineering tool.</p>	<ul style="list-style-type: none"> I can create a tool that will identify and sort different rock sizes. 	<p>1. CFA: Students choose and evaluate the properties of one rock. Then students draw and label with words/color. Student Sheet No. 2</p> <p>Part 1: CFA: Students draw a diagram of their plan to solve the problem.</p> <p>Part 2: CFA: Students follow the plan and make modifications for improvement in their plan drawing.</p>	<p>www.smarttech.com/us/Resources/SMART+Exchange : Downloaded Files are in the Science Shared Folder under Extra Resources</p> <p>e. Part 5: Start a rock collection Key Vocabulary: collection, museum</p> <p>1. <u>Exploring Rocks and Colorful Rocks</u> (Foss Science Stories)</p> <p>Part 1 and Part 2 Engineering Plan in Science Staff Shared Folder</p>
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January 2021

Content	Skills	Learning Targets	Assessment	Resources & Technology
<p>UEQ</p> <p>1. How are rocks different and how are they the same?</p> <p>2. How can rocks be sorted?</p>		<ul style="list-style-type: none"> I can sort rocks into different groups and explain why. I can identify an earth material that 		<p>Pebbles, Sand, and Silt</p> <p>Pebble, Sand, and Silt Smart Notebook File in first grade science shared folder</p>

<p>3. What earth material is smaller than sand? 4. What is in soil and what are the different parts of soil?</p> <p>2. Investigation 2: River Rocks  a. Part 1: Screening River Rocks</p> <p>b. Part 2: River Rocks By Size</p> <p>c. Part 3: Sand and Silt</p>	<p>a. Part 1: Screening River Rocks 1. Distinguish differences in river rock size. 2. Identify the five sizes of rock with labels.</p> <p>b. Part 2: River Rocks By Size 1. Determine rock size in terms of small and large in each category. Ex. small and large gravel</p> <p>c. Part 3: Sand and Silt 1. Experiment with sand and water. 2. Observe how sand particles and silt particles separate.</p>	<p>is smaller than sand.</p> <ul style="list-style-type: none"> ● I can identify different types of soils. ● I can tell how rocks are the same and different. 	<p>a. Part 1: Screening River Rocks 1. CFA: Teacher observe the screened rocks with rock size labels. Student Sheet No. 6</p> <p>b. Part 2: River Rocks By Size</p> <p>CSA=Have students glue rock size samples to Investigation 2: River Rocks -student sheet No. 7</p> <p>c. Part 3: Sand and Silt 1. CFA: Record results on</p>	<p>Student Sheets No. 1-9 in first grade science shared folder CA=Rubrics in shared folder Science Stories in first grade science shared folder Tech Integration= Pebbles, Sand, Silt: Find Earth Materials - www.fossweb.com</p> <p>www.smarttech.com/us/Resources/SMART+Exchange : Downloaded Files are in the Science Shared Folder under Extra Resources</p> <p>a. Part 1: Screening River Rocks Key Vocabulary: earth material, screen, separate, size, sand, gravel, pebble</p> <p>b. Part 2: River Rocks By Size Key Vocabulary: cobble, boulder</p>
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	3. Identify a particle smaller than sand.		student sheet No. 8 and then paste into their science notebooks.	<p>Key Vocabulary: silt, layer, particle, mixture, shake, settle, s ink</p> <p>1. <u>The Story of Sand</u> (Foss Science Stories)</p>
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January 2021

Content	Skills	Learning Targets	Assessment	Resources & Technology
<p>UEQ</p> <p>1. How are rocks different and how are they the same?</p> <p>2. How can rocks be sorted?</p> <p>3. What earth material is smaller than sand?</p> <p>4. What is in soil and what are the different parts of soil?</p> <p>2. Investigation 2: River Rocks </p> <p>a. Part 1: Screening River</p>	<p>a. Part 1: Screening River Rocks</p> <p>1. Distinguish differences in river rock size.</p>	<ul style="list-style-type: none"> • I can sort rocks into different groups and explain why. • I can identify an earth material that is smaller than sand. • I can identify different types of soils. • I can tell how rocks are the same and different. 	<p>a. Part 1: Screening River Rocks</p> <p>1. CFA: Teacher observe the screened rocks with</p>	<p>Pebbles, Sand, and Silt</p> <p>Pebble, Sand, and Silt Smart Notebook File in first grade science shared folder</p> <p>Student Sheets No. 1-9 in first grade science shared folder</p> <p>CA=Rubrics in shared folder</p> <p>Science Stories in first grade science shared folder</p> <p>Tech Integration= Pebbles, Sand, Silt: Find Earth Materials - www.fossweb.com</p>

<p>Rocks</p> <p>b. Part 2: River Rocks By Size</p> <p>c. Part 3: Sand and Silt</p>	<p>2. Identify the five sizes of rock with labels.</p> <p>b. Part 2: River Rocks By Size</p> <p>1. Determine rock size in terms of small and large in each category. Ex. small and large gravel</p> <p>c. Part 3: Sand and Silt</p> <p>1. Experiment with sand and water.</p> <p>2. Observe how sand particles and silt particles separate.</p> <p>3. Identify a particle smaller than sand.</p>		<p>rock size labels. Student Sheet No. 6</p> <p>b. Part 2: River Rocks By Size</p> <p>CSA=Have students glue rock size samples to Investigation 2: River Rocks -student sheet No. 7</p> <p>c. Part 3: Sand and Silt</p> <p>1. CFA: Record results on student sheet No. 8 and then paste into their science notebooks.</p>	<p>www.smarttech.com/us/Resources/SMART+Exchange : Downloaded Files are in the Science Shared Folder under Extra Resources</p> <p>a. Part 1: Screening River Rocks Key Vocabulary: earth material, screen, separate, size, sand, gravel, pebble</p> <p>b. Part 2: River Rocks By Size Key Vocabulary: cobble, boulder</p> <p>Key Vocabulary: silt, layer, particle, mixture, shake, settle, sink</p>
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1. The Story of Sand (Foss Science Stories)

February 2021


Content	Skills	Learning Targets	Assessment	Resources & Technology
<p>UEQ</p> <p>1. How are rocks different and how are they the same?</p> <p>2. How can rocks be sorted?</p> <p>3. What earth material is smaller than sand?</p> <p>4. What is in soil and what are the different parts of soil?</p> <p>d. Part 4: Exploring Clay</p> <p>3. Investigation 4: Soil Explorations </p> <p>a. Part 1: Homemade Soil</p>	<p>d. Part 4: Exploring Clay</p> <p>1. Experiment with clay and water.</p> <p>a. Part 1: Homemade Soil</p> <p>1. Identify what dirt is.</p> <p>2. Utilize screens to separate components of soil and observe the samples using a magnifier.</p> <p>3. Experiment with soil and water.</p>	<ul style="list-style-type: none"> I can sort rocks into different groups and explain why. I can identify an earth material that is smaller than sand. I can identify different types of soils. I can tell how rocks are the same and different. 	<p>d. Part 4: Exploring Clay</p> <p>1. CFA: Record results in science notebooks before and after the clay has settled.</p> <p>Student Sheet No. 8</p> <p>CSA= Student Sheet No. 13 Draw a picture of soil in water after it settles.</p>	<p>Pebbles, Sand, and Silt</p> <p>Pebble, Sand, and Silt Smart Notebook File in first grade science shared folder</p> <p>Student Sheets No. 1-9 in first grade science shared folder</p> <p>CA=Rubrics in shared folder</p> <p>Science Stories in first grade science shared folder</p> <p>Tech Integration= Pebbles, Sand, Silt: Find Earth Materials - www.fossweb.com</p> <p>www.smarttech.com/us/Resources/SMART+Exchange : Downloaded Files are in the Science Shared Folder under Extra Resources</p> <p>d. Part 4: Exploring Clay Key Vocabulary: clay, wet,</p>

				<p>dry</p> <p>a. Part 1: Homemade Soil Key Vocabulary: humus, soil, ingredient Student Sheet No. 13 in Shared Folder United Streaming Video: Rocks: The Solid Earth Materials: Part 01</p>
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February 2021

Content	Skills	Learning Targets	Assessment	Resources & Technology
<p>UEQ</p> <p>1. How are rocks different and how are they the same?</p> <p>2. How can rocks be sorted?</p> <p>3. What earth material is smaller than sand?</p> <p>4. What is in soil and what are the different parts of soil?</p> <p>d. Part 4: Exploring Clay</p>	<p>d. Part 4: Exploring Clay</p> <p>1. Experiment with clay and water.</p>	<ul style="list-style-type: none"> I can sort rocks into different groups and explain why. I can identify an earth material that is smaller than sand. I can identify different types of soils. I can tell how rocks are the same and different. 	<p>d. Part 4: Exploring Clay</p> <p>1. CFA: Record results in science notebooks before and after the clay has settled.</p> <p>Student Sheet No. 8</p>	<p>Pebbles, Sand, and Silt</p> <p>Pebble, Sand, and Silt</p> <p>Smart Notebook File in first grade science shared folder</p> <p>Student Sheets No. 1-9 in first grade science shared folder</p> <p>CA=Rubrics in shared folder</p> <p>Science Stories in first grade science shared folder</p> <p>Tech Integration= Pebbles, Sand, Silt: Find Earth Materials -</p> <p>www.fossweb.com</p> <p>www.smarttech.com/us/Re souces/SMART+Exchange</p>
<p>3. Investigation 4: Soil</p>	<p>a. Part 1: Homemade Soil</p> <p>1. Identify what dirt is.</p>			

<p>Explorations </p> <p>a. Part 1: Homemade Soil</p>	<p>2.Utilize screens to separate components of soil and observe the samples using a magnifier.</p> <p>3. Experiment with soil and water.</p>		<p>CSA= Student Sheet No. 13 Draw a picture of soil in water after it settles.</p>	<p>: Downloaded Files are in the Science Shared Folder under Extra Resources</p> <p>d. Part 4: Exploring Clay Key Vocabulary: clay, wet, dry</p> <p>a. Part 1: Homemade Soil Key Vocabulary: humus, soil, ingredient Student Sheet No. 13 in Shared Folder United Streaming Video: Rocks: The Solid Earth Materials: Part 01</p>
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March 2021

Content	Skills	Learning Targets	Assessment	Resources & Technology
UEQ 1. How are rocks different and how are they the same? 2. How can rocks be sorted? 3. What earth material is smaller than sand? 4. What is in soil and what are the different parts of soil?	b. Part 2 and 3: Soil Search	<ul style="list-style-type: none"> ● I can sort rocks into different groups and explain why. ● I can identify an earth material that is smaller than sand. ● I can identify different types of soils. 		Pebbles, Sand, and Silt Pebble, Sand, and Silt Smart Notebook File in first grade science shared folder Student Sheets No. 1-9 in first grade science shared folder CA=Rubrics in shared folder Science Stories in first

<p>b. Part 2 and 3: Soil Search and Studying Local Soil- Outdoor Lesson (Lesson to be completed in the Spring when ground thaws)</p> <p>Order Meal Worms the first week of March - They will be delivered mid to late March!</p>	<p>and Studying Local Soil- Outdoor Lesson 1.</p> <p>Order Meal Worms the first week of March - They will be delivered mid to late March!</p>	<ul style="list-style-type: none"> I can tell how rocks are the same and different. 		<p>grade science shared folder Tech Integration= Pebbles, Sand, Silt: Find Earth Materials - www.fossweb.com</p> <p>www.smarttech.com/us/Re-sources/SMART+Exchange : Downloaded Files are in the Science Shared Folder under Extra Resources</p> <p>b. Part 2 and 3: Soil Search and Studying Outdoor Lesson - Soil Search - Outdoor Lesson in shared folder</p> <p>b. <u>What Is in Soil? Testing Soil Fossils</u>(Foss Science Stories)</p> <p>Order Meal Worms the first week of March - They will be delivered mid to late March!</p>
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March 2021

Content	Skills	Learning Targets	Assessment	Resources & Technology
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<p>UEQ 1. How are rocks different and how are they the same? 2. How can rocks be sorted? 3. What earth material is smaller than sand? 4. What is in soil and what are the different parts of soil?</p> <p>b. Part 2 and 3: Soil Search and Studying Local Soil- Outdoor Lesson (Lesson to be completed in the Spring when ground thaws)</p> <p>Order Meal Worms the first week of March - They will be delivered mid to late March!</p>	<p>b. Part 2 and 3: Soil Search and Studying Local Soil- Outdoor Lesson 1.</p> <p>Order Meal Worms the first week of March - They will be delivered mid to late March!</p>	<ul style="list-style-type: none"> • I can sort rocks into different groups and explain why. • I can identify an earth material that is smaller than sand. • I can identify different types of soils. • I can tell how rocks are the same and different. 		<p>Pebbles, Sand, and Silt Pebble, Sand, and Silt Smart Notebook File in first grade science shared folder Student Sheets No. 1-9 in first grade science shared folder CA=Rubrics in shared folder Science Stories in first grade science shared folder Tech Integration= Pebbles, Sand, Silt: Find Earth Materials - www.fossweb.com</p> <p>www.smarttech.com/us/Re souces/SMART+Exchange : Downloaded Files are in the Science Shared Folder under Extra Resources</p> <p>b. Part 2 and 3: Soil Search and Studying Outdoor Lesson - Soil Search - Outdoor Lesson in shared folder</p> <p>b. <u>What Is in Soil?</u> <u>Testing Soil Fossils</u>(Foss Science Stories)</p>
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Order Meal Worms the first week of March - They will be delivered mid to late March!

April 2021

Content	Skills	Learning Targets	Assessment	Resources & Technology
<p>UEQ</p> <ol style="list-style-type: none"> 1. What do insects need to survive? 2. How do mealworms grow and change? 3. What is the life cycle of mealworms and ducks? <p>Insects </p> <p>a. Part I: Investigation I Mealworms</p> <p>b. Part 2: Larva, Pupa, Adult</p>	<p>a. Part I: Mealworms</p> <ol style="list-style-type: none"> 1. Using smart slide pose the question, "What do mealworms need to survive?" 2. Students get mealworms, vial, bran, potatoe piece, tack for air holes. 	<ul style="list-style-type: none"> • I can identify what an insect needs to survive. • I can identify and order the changes of a mealworm. 	<p>a.Part I: Mealworms</p> <ol style="list-style-type: none"> 1. CFA: Mealworm Observations: Basic Needs Exit Slip 2. CSA=Students will successfully draw the 4 basic needs of an insect in particular the mealworm. <p>Optional: Students can prepare their own vial demonstrating their understanding of what a meal worm needs to survive. Students can keep their mealworms in that</p>	<p>Insects</p> <p>Order Mealworms First Week of March</p> <p>Insects Smart Notebook File in first grade science shared folder</p> <p>Science Stories in first grade science shared folder</p> <p>Tech Integration=</p> <p>Insects: Insect Hunt - www.fossweb.com</p> <p>United Streaming - Magic School Bus Videos= In a Beehive, Hops Home, Butterfly and The Bog Beast, Gets Ants In Its Pants</p> <p>www.smarttech.com/us/Resources/SMART+Exchange : Downloaded Files are in the Science Shared Folder under Extra Resources</p>

	<p>b. Part 2: Larva, Pupa, Adult</p> <ol style="list-style-type: none"> Using smart slide pose question, "How do mealworms grow and change?" Students view their mealworms and record observations in science journal. During each observation teacher needs to introduce a mealworm change. The following changes need to be covered: larva molting, pupation, adults. When adult beetles have emerged, draw the beetle body parts and structures. 		<p>vial through the stages of growth.</p> <p>b.Part 2 1-3. CFA: Students record their mealworm observations into their science notebook.</p> <p>4. CFA: In the science notebooks, have students draw and label the beetle body parts. Include the three main body parts of an insect: head, thorax, abdomen. Also include the antennae.</p>	<p>a. Part 1: Mealworms Key Words: mealworm, air, water, food, space.</p> <p>b. Key Words: segment, antennae, droppings, leg, molt, larve, pupa, adult, darkling beetle, head, thorax, abdomen, wing.</p>
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April 2021

Content	Skills	Learning Targets	Assessment	Resources & Technology
<p>UEQ</p> <ol style="list-style-type: none"> What do insects need to survive? How do mealworms grow and change? What is the life cycle of mealworms and ducks? 		<ul style="list-style-type: none"> I can identify what an insect needs to survive. I can identify and order the changes of a mealworm. 	<p>a.Part I: Mealworms</p> <ol style="list-style-type: none"> CFA: Mealworm Observations: Basic Needs 	<p>Insects</p> <p>Order Mealworms First Week of March</p> <p>Insects Smart Notebook File in first grade science shared folder Science Stories in first grade science shared folder Tech Integration=</p>

	emerged, draw the beetle body parts and structures.		abdomen. Also include the antennae.	darkling beetle, head, thorax, abdomen, wing.
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May 2021

Content	Skills	Learning Targets	Assessment	Resources & Technology
<p>CEQ</p> <ol style="list-style-type: none"> 1. What do insects need to survive? 2. How do mealworms grow and change? 3. What is the life cycle of mealworm and ducks? <p>C. Part Three: Life Cycle</p> <p>1a. Beetles</p> <p>2a-. Ducks</p> <p>Students will observe nesting structures, different types of ducks, observe the life cycle of ducks. (Outdoor Lesson Optional)</p> <p>2b. Identify Duck Life Cycle</p>	<p>C. Life Cycle</p> <p>1a. Once you have an adult beetle, students will be introduce to the stages of the life cycle.</p> <p>2a. Outdoor Lesson on Duck Life Cycle: Go outdoors and observe a duck structure.</p>	<ul style="list-style-type: none"> • I can identify what an insect needs to survive. • I can identify and order the changes of a mealworm. 	<p>C. Life Cycle</p> <p>1a. CFA: Mealworm Observations: Life Cycle Exit Slip</p> <p>1a. CSA= Students will cut and paste the beetle life cycle into the correct order. Located in the first grade science shared folder. (Summative Assessment).</p> <p>1b. CFA: Students will complete beetle life cycle chart. Have each student</p>	<p>Insects</p> <p>Insects Smart Notebook File in first grade science shared folder</p> <p>CA=cut and paste beetle life cycle assessment found in first grade science shared folder</p> <p>Science Stories in first grade science shared folder</p> <p>Tech Integration=</p> <p>Insects: Insect Hunt - www.fossweb.com</p> <p>United Streaming - Magic School Bus Videos: In a Beehive, Hops Home, Butterfly and the Bog Beast, Gets Ants In Its Pants</p> <p>www.smarttech.com/us/Re-souces/SMART+Exchange : Downloaded Files are in the Science Shared Folder under Extra Resources</p>

	<p>2b. Students will be introduced to the duck life cycle.</p>		<p>cut out chart and structure and behavior words. Students should try to place the words in the correct chart box. Then model the correct placement and have students glue on chart.</p> <p>2a. CFA: In the science notebook, have students sketch duck structures with different types of ducks.</p> <p>2b. CFA: In the science notebook, students should demonstrate their knowledge by drawing the duck life cycle. Must include: eggs, ducklings, and adult duck.</p>	<p>C. Life Cycle 1a. Key Words: egg, life cycle, living, dead</p> <p>1b. Student template in shared folder</p> <p>2a. Duck Smart Notebook Files Video links on STMA homepage</p>
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<p>CEQ 1. What do insects need to survive? 2. How do mealworms grow and change? 3. What is the life cycle of mealworm and ducks?</p>		<ul style="list-style-type: none"> I can identify what an insect needs to survive. I can identify and order the changes of a mealworm. 		<p>Insects Insects Smart Notebook File in first grade science shared folder CA=cut and paste beetle life cycle assessment found in first grade science shared folder</p>

<p>C. Part Three: Life Cycle 1a. Beetles 2a-. Ducks Students will observe nesting structures, different types of ducks, observe the life cycle of ducks. (Outdoor Lesson Optional)</p>	<p>C. Life Cycle 1a. Once you have an adult beetle, students will be introduced to the stages of the life cycle.</p>		<p>C. Life Cycle 1a. CFA: Mealworm Observations: Life Cycle Exit Slip</p> <p>1a. CSA= Students will cut and paste the beetle life cycle into the correct order. Located in the first grade science shared folder. (Summative Assessment).</p> <p>1b. CFA: Students will complete beetle life cycle chart. Have each student cut out chart and structure and behavior words. Students should try to place the words in the correct chart box. Then model the correct placement and have students glue on chart.</p>	<p>Science Stories in first grade science shared folder Tech Integration= Insects: Insect Hunt - www.fossweb.com United Streaming - Magic School Bus Videos: In a Beehive, Hops Home, Butterfly and the Bog Beast, Gets Ants In Its Pants</p> <p>www.smarttech.com/us/Resources/SMART+Exchange : Downloaded Files are in the Science Shared Folder under Extra Resources</p> <p>C. Life Cycle 1a. Key Words: egg, life cycle, living, dead</p> <p>1b. Student template in shared folder</p>
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