

Grade 2 Science

Diary map is based on the 2014-2015 school year. Information may change year to year. Months are guidelines and items may be done at different times of the year.

Month	Essential Questions	Content	Skills	Assessment	Resources	Technology
Oct.	<p>Spiders How does a spider adapt in its habitat?</p> <p>How is a spider different from an insect?</p> <p>How does the life cycle of a spider continue?</p>	<p>Spiders -Parts -Life cycle -Spiders vs. insects -Webs -Diet -Arachnids</p>	<p>Spiders -Identify, draw and label parts -Show knowledge of the life cycle -Compare and contrast spiders and insects -Understand the purpose of webs and identify different types of webs -Demonstrate knowledge of a spider's diet -Recognize spiders are members of the Arachnid family</p>	<p>Spiders -Pre and Post assessment of spider knowledge -Research and report -My Book of Arachnids (fact book)</p>	<p>Spiders -<i>Charlotte's Web</i> -Classroom library of nonfiction books -Guided Reading sets of nonfiction books -Teacher created materials</p>	<p>Spiders -Spider SMART Board slide presentation -Magic School Bus video <i>Spins a Web</i> -Spider websites</p>
Jan.	<p>Penguins How does a penguin adapt in its habitat?</p> <p>How does the life cycle of a penguin continue?</p> <p>How do the characteristics of different species of penguins compare and contrast?</p>	<p>Penguins -General Facts -Parts -Habitat -Diet -Different species of penguins -Life cycle</p>	<p>Penguins -Identify, draw, and label parts of a penguin -Show knowledge of the life cycle -Compare and contrast different species of penguins -Demonstrate knowledge of a penguin's diet</p>	<p>Penguins -Pre and Post assessment of penguin knowledge -Research and report</p>	<p>Penguins -<i>Mr. Popper's Penguins</i> -<i>Magic Tree House: Eve of the Emperor Penguin</i> -<i>Tacky the Penguin</i> -Classroom library of nonfiction books -Guided Reading sets of nonfiction books -Teacher created materials</p>	<p>Penguins -Penguin -SMART Board slide presentation -Tumblebooks: Penguin videos -Penguin DVD's -Penguin websites</p>
March	<p>Matter How are the characteristics of a solid, liquid, and gas unique?</p> <p>How does matter change from one state to another state?</p>	<p>Matter -Solids -Liquids -Gases -Changing states of matter</p>	<p>Matter -Identify the characteristics of a solid, liquid, and gas -Compare and contrast the different states of matter -Demonstrate knowledge of the changing states of</p>	<p>Matter -Pre and Post assessment of matter -Experiments -Lab reports</p>	<p>Matter -"States of Matter for Kids" unit plan by Miss DeCarbo -<i>Change it! Solids, Liquids, Gases and You</i> by Adrienne Mason -Classroom library of nonfiction books</p>	<p>Matter -BrainPop, Jr. -Videos from Discovery Education website</p>

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			matter		-Guided Reading sets of nonfiction books	
April	<p>Butterflies How does a butterfly proceed through a four-stage life cycle?</p> <p>How does a butterfly adapt to its habitat?</p>	<p>Butterflies -Parts -Life Cycle -Diet -Habitat</p>	<p>Butterflies -Label body parts -Identify and label the stages of the life cycle -Compare and contrast butterflies to moths -Demonstrate knowledge of a butterfly's diet</p>	<p>Butterflies -Pre and Post assessment of butterfly knowledge -Research and report</p>	<p>Butterflies -<i>Charlie the Caterpillar Change and Grow: Caterpillar to Butterfly</i> -<i>From Caterpillar to Butterfly</i> -Classroom library of nonfiction books -Guided Reading sets of nonfiction books -Teacher created materials -Butterfly kit</p>	<p>Butterflies -Butterfly SMART Board slide presentation -Magic School Bus: From Butterfly to Bog Beast -Butterfly websites -Butterfly webquest (Enchanted Learning website)</p>
May	<p>Earth's Systems What are common landforms on Earth?</p> <p>Where can water be found on Earth?</p> <p>How can water and wind change the shape of the land?</p>	<p>Earth's Systems -Landforms -Water locations -Weathering and erosion -Fast and slow changes of the Earth</p>	<p>Earth's Systems -Identify landforms -Identify where water can be found -Demonstrate knowledge of weathering and erosion -Recognize fast and slow changes of the Earth</p>	<p>Earth's Systems -Experiments -Lab reports -Graphic organizers</p>	<p>Earth's Systems -"NGSS - Earth's Systems" by Stephanie Roe -Classroom library of nonfiction books -Guided Reading sets of nonfiction books -Teacher created materials</p>	<p>Earth's Systems -BrainPop, Jr. -Discovery Education -Weathering and erosion websites</p>