

Second Grade Science Scope and Sequence

Week	Topic	Objective	Lesson Development	Activities/Resources
1st nine wks.	Forces and Motion	<p>Recognize that all objects fall unless supported.</p> <p>Identify materials that are attracted to magnets.</p> <p>Observe how changing the amount of weight affects a balanced system.</p>	<p style="text-align: center;"><i>Tools</i></p> <p>People of all ages use tools in their daily lives at home, school, and work</p>	<p style="text-align: center;"><i>The Drill</i>, by David Armentrout TM pg. 64b</p> <p>Simple machine playground including: slide, incline plane, swing with pulley attached (sewing machine bobbin), etc.</p> <p style="text-align: center;">Magnet center</p> <p>Lifting a Book experiment- incline plane pulling a book up an inclined board.</p>
1st nine wks.	Heredity and Reproduction	<p>Recognize that all living things come from other living things.</p> <p>Match offspring with their parents.</p> <p>Recognize that as an organism grows, its appearance may change.</p>	<p style="text-align: center;"><i>The Ugly Duckling</i></p> <p>A classic tale retold about an ugly duckling who turns into a beautiful swan.</p> <p style="text-align: center;"><i>Duck</i></p> <p>A baby duck explains facts about its hatching and growth.</p>	<p style="text-align: center;">Visit a zoo or farm</p> <p>Invite guest speakers: animal experts, park ranger, veterinarian TM pg. 142b</p> <p>File folder game- matching offspring with their parents</p> <p>Memory game- matching offspring with their parents</p> <p>Use an incubator and raise ducks or chicks</p> <p>Raise tadpoles and have students keep a journal of the changes that occur</p>
1st nine wks.	Cell Structure and Function	<p>Use magnifiers to study smaller parts of animals and identify their functions</p> <p>Use magnifiers to observe</p>	<p style="text-align: center;"><i>Eye Spy</i></p> <p>A class learns about the interesting things you can see when they are magnified.</p>	<p style="text-align: center;"><i>Arthur's Eyes</i> by Marc Brown</p> <p>Invite guest speaker: eye doctor microscope, magnifying glasses TM pg. 166b</p>

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2nd nine wks.	Interaction Between Living Things and Their Environment	and describe what occurs when a plant or an animal loses a specific part.	<i>Seeing</i> Facts and explorations about eyes and how our brains are needed to understand what we see are presented.	Use eyeglass pattern with cellophane for lens to demonstrate how a person with impaired vision sees without corrective lens- visual awareness
		Categorize objects as living or nonliving	<i>Furry Mouse</i> A mouse is introduced to his new home and meets a new friend.	Visit the pet store, or have someone from the pet store bring in animals to share with the class
		Determine how animals interact with the living and nonliving elements in their environment through the senses.	<i>"Two Mice"</i> The pet inside mouse prefers a nap rather than keeping up with the outside mouse's life of narrow escapes.	<i>Around the Pond: Who's Been Here?</i> (big book) Guest speaker: environmental biologist
		Determine how organisms interact with the nonliving elements of their environment.	<i>The Old Gollywampus</i> After hearing a legend, a snake mistakes the snow for being the old gollywampus	Nature walk TM pg. 202b <i>The Pond</i> (phonics reader)
2nd nine wks.	Food Production and Energy for Life	Recognize different types of pollutants.	<i>Snakes</i> The reader can explore facts about the sizes, characteristics, and lives of snakes	
		Compare how plants and animals satisfy their basic requirements for life.	<i>Spiders Up Close</i> An up close look at spiders, how they live, and what they look like.	Make "junk" spiders and insects- Students make spiders out of "junk they find at home- spiders must be anatomically correct
	Heredity and Reproduction	Recognize that all living things come from other living things. Match offspring with their parents.	<i>Anansi and the Talking Melon</i> After Anansi the Spider gorges inside a melon and gets stuck, he tricks other animals into thinking the melon can talk.	Make edible spiders (Oreo cookies) Echolocation game- blind folded student tries to get through maze using sounds from classmates to avoid collision

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		Recognize that as an organism grows, its appearance may change.		
	Diversity and Adaptation Among Living Things	Provide specific examples of differences among animals of the same kind.		
		Classify an organism according to the environment in which it can best survive.		
2nd nine wks.	Interactions of Matter	Recognize that when substances combine they may retain their individual properties (e.g., salt and pepper)	<p style="text-align: center;"><i>Treasure Pie</i></p> <p>After being invited to Dog's house to eat Bear's meal, Moose and Goat decide to make their own meal to avoid eating ants.</p>	<p>Create a classroom cookbook</p> <p>Have students bring in recipes (If possible cook these recipes in the classroom)</p>
		Recognize that when substances combine they may not lose their individual properties (e.g., powdered drink mix with water)	<p style="text-align: center;"><i>Bruno the Baker</i></p> <p>Bruno and Felix follow the steps in preparing a birthday cake, which they happily share with unexpected guests.</p>	<p>Bring in menus or have the students create menus</p> <p>Visit a bakery</p> <p>Saxon math cookie lesson</p>
3rd nine wks.	Earth and Its Place in the Universe	Recognize that there are innumerable stars in the nighttime sky that vary in brightness, color, and location.	<p style="text-align: center;"><i>Space Dreams</i></p> <p>A girl aspires to be an astronaut and bring people together in space.</p>	<p>Make and Alka-Seltzer rocket</p> <p>Visit a planetarium or space museum</p> <p>Guest speaker: astronomer</p>

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3rd nine wks.		Recognize that as an organism grows, its appearance may change.		<p>Guest Speaker: scuba diver</p> <p>Bring in tropical fish</p> <p>Have students create a shoebox aquarium</p> <p>TM pg. 246b</p>
	Biological Change	Recognize that some plants and animals that formerly inhabited the earth are no longer present on the earth.	<p><i>Tex and the Big Bad T. Rex</i> A young dinosaur saves his older sister by using a special trick.</p> <p><i>Let's Go Dinosaur Tracking!</i> Children travel to Texas and France to find dinosaur tracks that reveal much about the animals that left them.</p>	<p>Write a story about a dinosaur living today.</p> <p>Create a dinosaur</p> <p>Visit a natural history museum</p>
	Diversity and Adaptation Among Living Things	Provide specific examples of differences among animals of the same kind.		<p>Guest Speaker: dinosaur expert</p> <p>Make fossils</p> <p>Make dinosaur tracks</p>
	Structure and Properties of Matter	Classify an organism according to the environment in which it can best survive.		<p>Have a scavenger hunt</p> <p>TM pg. 247b</p>
4th nine wks.	Interactions of Matter	Identify physical properties that can be used to describe a material. Describe ways in which a material can be changed. Recognize that when substances combine		

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4th nine wks.	Structure and Properties of Matter	<p>they may retain their individual properties (e.g., salt and pepper)</p> <p>Recognize that when substances combine they may not lose their individual properties (e.g., powdered drink mix with water)</p> <p>Identify physical properties that can be used to describe a material.</p> <p>Describe ways in which a material can be changed.</p>	<p style="text-align: center;"><i>The Clubhouse</i></p> <p>A group of children build a clubhouse out of a cardboard box and materials around the house.</p> <p style="text-align: center;"><i>Lemonade for Sale</i></p> <p>Four children cooperatively solve problems and chart their progress as they earn enough money to rebuild the clubhouse.</p>	<p>Make lemonade with powder mix</p> <p>Do an oil and water experiment</p> <p style="text-align: center;">TM pg. 300b</p>
	Earth Resources	<p>Recognize the components of sand and soil.</p> <p>Observe the properties of sand and soil.</p> <p>Identify various methods to conserve earth resources (e.g., soil, trees, and water)</p>	<p style="text-align: center;"><i>Wicker School Takes Action</i></p> <p>A class decides to beautify the neighborhood by painting a bridge.</p> <p style="text-align: center;"><i>City Green</i></p> <p>A young girl enlists the help of her neighbors, even the resistant Old Man Hammer, to create a community garden.</p>	<p>Pick up trash on the playground.</p> <p style="text-align: center;">Beautification project</p> <p>Plant seeds and watch them grow (lima beans, radish seeds)</p> <p style="text-align: center;">Tm pg. 410b</p>
	Energy	<p>Compare the heating and cooling rates land, air, and water.</p>		

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