

	<p>Animals/Habitats/Life Cycles (continued)</p> <p>Measurement</p> <p>Liquids</p>	<p>Recognizes the environment in which an organism is typically found (I/D).</p> <p>Distinguish between land and water environments (I).</p> <p>Compare objects according to weight, length, and size (I).</p> <p>Distinguish between solids and liquids (I).</p>	<p>Match animals to environments.</p> <p>Classify animals based on land and water habitats.</p> <p>Use rulers to determine length and scales to determine weight.</p> <p>Classify an object as solid or liquid.</p>	<p>Matching game which animal goes with which home.</p> <p>Have students make a shoebox habitat.</p> <p>Use scales and tape measure to track student's growth throughout the year. Saxon math lesson 72</p> <p>Play a classification game - solid or liquid. Saxon math lessons 103, 118</p>
Dec-Jan	<p>Interactions of Matter</p> <p>Atmospheric Cycles</p>	<p>Observe and describe changes that occur when 2 materials interact (I).</p> <p>Recognize that weather conditions are constantly changing (I).</p> <p>Describe weather patterns associated with the seasons (I).</p> <p>Describe the effect of the sun's energy on different materials (I).</p>	<p>Mixing materials and recording changes that occur.</p> <p>Graph weather conditions.</p> <p>Match appropriate clothing and weather with each season.</p> <p>Record sun's effects on various items.</p>	<p>Do various cooking projects, ex. Gingerbread men, Journey cakes.</p> <p>Math meeting board</p> <p>Matching clothing to season. Bring a suitcase of various types of clothing and identify the appropriate season and weather for each.</p> <p>Put ice, construction paper, and other items in or near the sun, and record the results.</p>

Feb-Mar	Space	<p>Distinguish between objects that appear in the day and nighttime sky (I/D).</p> <p>Recognize that the moon is the closest object in the sky (I).</p> <p>Recognize that there are tools for observing object in the day and night sky (I).</p> <p>Observe and illustrate the position of the sun at different times of the day (I/D).</p> <p>Recognize that shadows change length and position during the course of a day (I).</p>	<p>Order planets by proximity to the sun. Illustrate day and night sky.</p> <p>Observe and record size and shape of the moon.</p> <p>Use telescopes and binoculars to observe the sky during the day and at night.</p> <p>Illustrate sun's size and location throughout the day.</p> <p>Work in pairs to trace shadows throughout the day.</p>	<p>Work planets floor puzzle, or put models of planets in order. Watch and discuss <u>Magic School Bus Gets Lost in Space</u>. Study the sky during day and night and illustrate.</p> <p>Keep a moon journal. Read <u>Papa Please Get the Moon for Me</u>.</p> <p>Take a field trip to the planetarium. Using telescopes and binoculars students record what is seen during the day and nighttime hours.</p> <p>Divide students into groups and make outdoor chalk diagrams of the position of the sun throughout the day.</p> <p>Do a shadow study with cooperative groups. Students choose a child's shadow to chase throughout the day. Play shadow tag. Read <u>The Shape of Me and Other Stuff</u>.</p>
	Pollution	<p>Provide examples of pollutants in a specific environment (I).</p>	<p>Organize outdoor clean up. Illustrate environmental pollutants.</p>	<p>Have students clean up outdoors around the school. Students will illustrate what they found. Light a candle in a jar. Then put the lid on. After the candle goes out, examine the lid for smoke and fire damage. Read <u>The Bravest Cat - S.F.</u></p>

	<p>Weather</p>	<p>Associate temperature, precipitation, and wind conditions with various types of weather (I/D).</p> <p>Identify the appropriate tool for measuring temperature, precipitation, and wind speed/direction (I).</p> <p>Recognize that weather conditions are constantly changing (D).</p> <p>Describe weather patterns associated with the seasons (D).</p>	<p>Compare and track weather conditions for a specified period of time.</p> <p>Construct and/or view thermometers, rain gauges, weather vanes, and windsocks.</p> <p>Compare and contrast weather patterns in various months.</p> <p>Match weather with seasons.</p>	<p>Using the math meeting board, track and graph weather for several months and compare.</p> <p>Make weather tools such as thermometers, rain gauges, and weather vanes. Discuss the importance of each. Invite a meteorologist to the school.</p> <p>Go outdoors on a cloudy day, and have a cloud watch. Read <u>Look at That - S.F.</u>, and <u>It Looked Like Spilled Milk</u>. Compare weather that has been recorded on math meeting board.</p> <p>Make a matching game for students to play in which they match weather patterns to the appropriate seasons.</p>
	<p>Earth Resources</p>	<p>Use observable properties to distinguish among a variety of earth materials (I/D).</p>	<p>Collect and examine rocks, soil, and water from different sources.</p>	<p>Do a class rock or soil collection from the 50 states. Students record differences. Collect water from various sources and compare.</p>

	Dinosaurs	Distinguish between land and water environments (D).	Research prehistoric, land and water animals.	Create a class book illustrating habitats for various land and water dinosaurs. Read <u>A-Z Discovering Dinosaurs</u> .
	Forces & Motion	Compare objects according to weight, length, and size (D). Observe and describe how the movement of an object can be changed (e.g., push/pull, fast/slow (I/D)).	Contrast sizes of prehistoric animals to familiar objects. Investigate the effects of motion on various objects.	Measure outdoors, using feet and inches, the length of different dinosaurs. Watch <u>The Magic School Bus - The Busasaurus</u> . Saxon math lesson 117 Spin a boiled and raw egg and record differences. Set up experiments in the block center. Read <u>The Rolling Rice Cake S.F., A-Z - Simple Machines</u> . Watch <u>The Magic School Bus Plays Ball</u> .
Apr-May	Plants	Use magnifiers to observe smaller parts of a larger object (I). Observe and describe when an object loses a part (D). Use senses to explore the environment (D).	Identify the smaller parts contained in larger objects. Examine plants and trees as they grow and change. Do hands-on experiments that involve all the senses.	Take a nature walk and use magnifying glasses to explore what is happening with plants and trees in the spring. Keep magnifying glasses in the science center. Keep and prune a class plant as leaves die. Bring in a lizard that can re-grow a tail. Illustrate items examined in nature walk. Bring various flowers in for students to smell. Blindfold students and have them taste various fruits and vegetables. Make a flower using various textures of materials.

	Plants (continued)	<p>Recognize the basic needs of living things (e.g., food, water, sunlight, and air). (I)</p> <p>Identify ways that earth resources benefit man (I/D).</p> <p>Describe the effects of the sun's energy on different materials (D).</p> <p>Observe and note differences among plants and animals of the same kind (D).</p>	<p>Care for growing plants.</p> <p>Match plants with products.</p> <p>Experiment with and record the effects of the sun on common objects.</p> <p>Read and report on various living things.</p>	<p>Have students care for and grow plants from seeds in the classroom. Read <u>Bluebirds in the Garden - S.F.</u>, <u>The Tiny Seed</u>, & <u>The Carrot Seed</u>. Watch <u>Magic School Bus Goes to Seed</u>.</p> <p>Create a matching game in which students have to match a plant with the product that can be created from it - ex. tree, wood. Read A-Z <u>What Comes From Plants?</u></p> <p>Take three plants, and put one in a cabinet, one in a jar, and one near a window. Observe and record what happens over time. Put common items (grapes, colored construction paper, ice) in or near the sun. Record the effect over time.</p> <p>Keep a plant journal for plants that are being grown in the classroom. Compare and contrast the plants being grown.</p>
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First Grade Science Scope and Sequence compiled by Ashby Morell, Tammy Taylor, Natosha Collins, Dale Brimer, & Mary Mills

Submitted by Ashby Morell - committee chairperson

See "Suggested Science Activities That Meet Tennessee State Standards For First Grade" for more activities and resources.

