

**Kindergarten Science** students at St. Patrick’s will develop into individuals with the ability to use the process skills of inquiry to discover answers to questions. Using various instructional tools (rulers, balance scale, thermometer, magnets, microscope, magnifying glasses, etc.) students will deepen their understandings of Life Science, Earth/Space Science, Physical Science, and Health/Social Science topics. Students will gain experience in observing, gathering and recording data, and evaluating results/observations in groups and individually. Students’ progress will be assessed mainly through participation in activities and discussion.

	<u>Standards/Goals</u>	<u>Instructional Tools</u>	<u>Assessment Tools</u>
<b>K.1 Life Science (Plants)</b>	a. Students will identify the root, stem and leaf of a plant.	Diagrams of different plants.	Teacher observation
	b. Students will explore how plants grow and what they need to grow.	Diagrams of the plant life cycle Puzzles showing the plant life style	Student participation Graph
	c. Students will describe the life cycle of a plant.	Discussion	Student illustration
	d. Students will differentiate between living and non-living.	Experiments Field trip	
	e. Students will observe and classify materials as a solid, liquid, or a gas.	Books Illustrate	
<b>K.2 Life Science (Animals)</b>	a. Students will observe multiple kinds of animals (farm, zoo, ocean, pet).	Discussion Books	Teacher observation Student participation
	b. Students will identify the needs of animals and their babies.	Experiment Field trips	Graph Student illustration
	c. Students will compare characteristics of living/nonliving things.	Speakers	
	d. Students will describe the life cycle of an organism (butterfly)		
<b>K.3 Earth/Space Science (Solar System)</b>	a. Students will understand the difference between Earth and Sky and describe simple characteristics of each (sun, moon, stars, clouds) (rocks, soil, water).	Religion materials Discussion Written/diagram activities Charts	Teacher observation Student participation Graph Student illustration
	b. Students will understand the difference between Day and Night.	Pictures Observation	
	c. Students will investigate how sun provides heat and light.	Calendar Books Cleaning activities	

	<b><u>Standards/Goals</u></b>	<b><u>Instructional Tools</u></b>	<b><u>Assessment Tools</u></b>
<b>K.4 Earth/Space Science (Weather)</b>	<ul style="list-style-type: none"> <li>a. Students will explore the different seasons and their weather.</li> <li>b. Students will identify the importance of each type of weather.</li> <li>c. Students will observe, describe, and record weather changes.</li> <li>d. Students will identify and label seasons.</li> </ul>	<ul style="list-style-type: none"> <li>Observation</li> <li>Discussion</li> <li>Graphing</li> <li>Books</li> <li>Pictures</li> <li>Calendar</li> </ul>	<ul style="list-style-type: none"> <li>Teacher observation</li> <li>Student participation</li> <li>Graph</li> <li>Student illustration</li> </ul>
<b>K.5 Physical Science</b>	<ul style="list-style-type: none"> <li>a. Students will explore matter in regards to its weight.</li> <li>b. Students will explore matter in regards to its size.</li> <li>c. Students will explore matter as it exists in parts and/or whole.</li> <li>d. Students will explore the characteristics of matter.</li> <li>e. Students will investigate sound in regards to loud and soft.</li> <li>f. Students will investigate how sound moves.</li> <li>g. Students will investigate heat in regards to hot and cold.</li> <li>h. Students will investigate light in regards to dark and light.</li> <li>i. Students will investigate how light travels.</li> <li>j. Students will investigate movement in regards to floating and sinking.</li> <li>k. Students will investigate movement using magnets.</li> <li>l. Students will explore magnets and classify magnetic/non-magnetic.</li> <li>m. Students will observe and measure changes of objects.</li> <li>n. Students will compare objects' weight and size.</li> </ul>	<ul style="list-style-type: none"> <li>Observation</li> <li>Experiment</li> <li>Discussion</li> <li>Exploration</li> <li>Sorting</li> <li>Graphing</li> <li>4-H</li> </ul>	<ul style="list-style-type: none"> <li>Teacher observation</li> <li>Student participation</li> <li>Graph</li> <li>Student illustration</li> </ul>

	<u>Standards/Goals</u>	<u>Instructional Tools</u>	<u>Assessment Tools</u>
<b>K.6 Personal/Social Science</b>	<ul style="list-style-type: none"> <li>a. Students will investigate and use their five senses to observe, and describe objects. (Seeing, Hearing, Tasting, Touching, Smelling)</li> <li>b. Students will identify different body parts.</li> <li>c. Students will identify how we are alike and different.</li> <li>d. Students will identify the need for exercise and rest.</li> <li>e. Students will identify good food choices versus poor food choices.</li> <li>f. Students will understand the importance of cleanliness.</li> <li>g. Students will identify substances that can benefit or harm their body.</li> <li>h. Students will identify safety rules for home and school.</li> <li>i. Students will identify healthy foods and snacks.</li> <li>j. Students will understand caring for the earth.</li> <li>k. Students will identify how they can care for our earth.</li> </ul>	<ul style="list-style-type: none"> <li>Discussion</li> <li>Experiment</li> <li>Diagram</li> <li>Observation</li> <li>Graphing</li> <li>Sorting</li> <li>4-H</li> </ul>	<ul style="list-style-type: none"> <li>Teacher observation</li> <li>Student participation</li> <li>Graph</li> <li>Student illustration</li> </ul>