

**Fifth Grade 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, students will deepen their understandings of Life Science, Earth/Space Science, Physical Science topics and further their knowledge of systems, order and organization within these disciplines. Students will gain experience in observing, gathering and recording data, evaluating results/observations, and presenting findings to others. Students’ progress will be assessed using a variety of tools including: lab experiments, designing and building models, drawing or completing diagrams, developing essays or other written evidence of mastery, and participating in chapter/unit tests.

	<b><u>Standards/Goals</u></b>	<b><u>Instructional Tools</u></b>	<b><u>Assessment Tools</u></b>
<b>5.1 Life Science</b>	a. Students will identify the systems of the body and how they interact: circulatory, digestive, nervous, muscular, skeletal, and respiratory. b. Students will explore and investigate how personal choices can directly affect a person’s health(exercise, nutrition)	Oral Reading Diagrams Independent Research Project	Quiz Test Student Notes Project presentations
<b>5.2 Life Science (Reproduction)</b>	a. Students will explore how organisms grow and reproduce. b. Students will explore inheritance. c. Students will distinguish between plant and animal cells.	Oral Reading-Text Diagrams Punnett Square Student Notes 4-H Giant Cell Animal creation/adaptations Group work	Labs Tests Lesson Reviews Teacher Observation Written Report
<b>5.3 Life Science (Adaptations)</b>	a. Students will explore how animal adaptations assist in their survival. b. Students will recognize adaptations for land and water animals. c. Students will explore variations of species.	Venn Diagrams Oral Reading-Text Lists of characteristics of each animal Powermedia Structural adaptation-animal Notes Group work Video of Monarch Butterfly	Venn Diagram Labs Teacher Observation Tests Lesson Review Research/presentation Essays

	<b><u>Standards/Goals</u></b>	<b><u>Instructional Tools</u></b>	<b><u>Assessment Tools</u></b>
<b>5.4 Life Science (Ecology)</b>	a. Students will explore the ecosystem. b. Students will classify how energy entering ecosystems as sunlight is transferred by producers into chemical energy through photosynthesis and that energy then passes from organism to organism in the food web. c. Students will recognize the role of producers and consumers. d. Students will explore how humans have effects on the environment e. Students will recognize that population consists of individuals of all species at any given time/place.	Oral reading- Text 4-H Rainforest Owl Pellets Diagrams PowerPoint Student Notes	Tests Labs Teacher observation Lesson Reviews Venn Diagrams
<b>5.5 Earth Science (The Changing Earth, Resources)</b>	a. Students will explore the earth's layers. b. Students will recognize the Earth's plate movement. c. Students will recognize the changes in the Earth's surface d. Students will explore the rock cycle.	Oral reading-Text Power-point slides of the earth Cooperative Group work/presentation Student Notes Group work Crystal Formation	Labs Tests Quizzes Reports Graphic Organizers
<b>5.6 Earth Science (Resources)</b>	a. Students will distinguish between renewable and nonrenewable resources. b. Students will recognize how water and land resources are used. c. Students will investigate water conservation and pollution. d. Students will explore land resources and air quality.	Diagrams Oral reading- Text Charts Models Student notes Group work	Tests Reports Graphic organizers Oral Assessment Teacher observation Labs
<b>5.7 Earth Science (Astronomy)</b>	a. Students will explore the solar system. b. Students will compare the sun and other stars. c. Students will recognize how scientists study planets, moon, sun, and stars.	Oral reading-Text Internet Field Trip-SAC Diagrams Student Notes Teacher created PowerPoint slides	Test Teacher observation Lesson Review Oral Assessment Project

	<u>Standards/Goals</u>	<u>Instructional Tools</u>	<u>Assessment Tools</u>
<b>5.8 Physical Science</b>	<p>a. Students will contrast speed and velocity.</p> <p>b. Students will explore inertia.</p> <p>c. Students will recognize how gravity and friction affects motion.</p> <p>d. Students will investigate potential and kinetic energy and how they relate.</p> <p>e. Students will explore how energy is used and how it changes form.</p> <p>f. Students will investigate radiant, electrical, and sound energy. Students will develop and understanding of motion and forces by describing the motion of an object.</p> <p>g. Students will explore the forms of energy and how energy is transferred; ie. Simple machines vibrations, sound.</p>	<p>Hands-on activities</p> <p>Notes</p> <p>Oral reading-Text</p> <p>Venn Diagrams</p> <p>PowerPoint Review slides</p> <p>Group work</p> <p>Simple Machine Creations Project</p>	<p>Simple Machine Presentation and Project</p> <p>Test</p> <p>Oral Quiz</p> <p>Student Notes</p>
<b>5.9 Science Inquiry</b>	<p>a. Students will develop abilities to do scientific inquiry: questioning, prediction, experiment, data, conclusion, results</p> <p>b. Students will practice science lab safety rules</p>	<p>Labs</p> <p>Teacher directed discussion</p>	<p>Notes</p> <p>Labs</p> <p>Oral Quizzes</p>