Second 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 and Health/Social Science topics. Students will gain experience in observing, gathering and recording data, and evaluating results/observations. Students' progress will be assessed using a variety of tools: including lab experiments, drawing or completing diagrams, reports, essays, or other written evidence of mastery, chapter and unit assessments, and participation in activities.

	Standards/Goals	Instructional Tools	Assessment Tools
2.1 Life Science (Plants)	a. Classify plants based on their characteristics. b. Identify the basic needs of a plant c. Identify the parts of a plant and each part's function.	Interactive Transparencies Unit A Practice Assessment CD Teacher created notes/Power point Books/Text Science Lab	Lesson Reviews Chapter Reviews Portfolio Assessments Diagrams Teacher Observations Student Journals
2.2 Life Science (Animals)	a. Students will divide animals to classes by the characteristics of each animal. b. Students will describe the life cycles of butterflies and frogs.	Diagrams of life cycles Books/Text Internet Experiments Examples of food chains Venn diagrams Flip charts	Lesson Reviews Chapter Reviews Tests Lab experiments Diagrams Teacher observation Student Journals Venn Diagrams
2.3 Earth Science (Fossils)	a. Students will explain what fossils are and how they are formed. b. Students will identify some dinosaurs and their characteristics. c. Students will identify events that may have caused the extinction of dinosaurs.	Books/Text Diagrams Models Internet	Lab experiments Tests Teacher observation Student participation
2.4 Matter	a. Students will state the properties of objects. b. Identify mixtures and solutions. c. Tell how matter can be changed. d. Describe how heat can change the state of matter.	Books/text Thermometer Internet Bar graphs	Lab experiments Models Projects Tests Teacher observations Student participation Lab Manual

	Standards/Goals	Instructional Tools	Assessment Tools
2.5 Matter (Sound, heat, and light)	a. Students learn how to make sounds and change volume. b. Students will learn that sound is produced when objects vibrate. c. Students will learn to identify high and low sounds and ways to change pitch.	Books/text Diagrams Internet	Lab experiments Models Projects/reports Tests Teacher observation Student participation
2.6 Matter (Force, Magnets, and Electricity)	a. Identify ways to make objects move. b. Describe how gravity affects objects. c. Identify when magnets attract and repel each other. d. Understand how electricity moves.	Books/text Diagrams/models Internet	Lab experiments Models Constructing diagrams Projects/reports Tests Teacher observation Student participation
2.7 Earth Science	a. Identify features of the earth such as mountains and lakes. b. Identify types of rocks. c. Identify ways rocks and soil can be changed. Identify ways volcanoes and earthquakes change the earth.	Lab equipment Lab manual pages Science lab Safety equipment Posters/charts Books/text	Lab experiments Lab reports Quizzes Discussions Teacher observation Student participation
2.8 Earth Science (Weather and Seasons)	a. Identify weather measuring instruments b. Identify seasonal weather conditions and effects on plants and animals c. Describe the water cycle	Books/text Balance Thermometer Measuring cups Magnets Diagrams Internet	Lab experiments Models Projects/reports Tests Teacher observation Student participation
2.9 Earth Science (The Solar System)	a. Describe how rotation of the earth causes night and day b. Describe features and phases of the moon c. Identify the sun and planets in our solar system.	Books/text Diagrams/models Internet	Lab experiments Models Constructing diagrams Projects/reports Tests Teacher observation
2.10 Health/Social Science (How Your Body Works)	a. Describe the functions of the brain. b. Describe the function of the heart and lungs. c. Describe the functions of the digestive system.	Lab equipment Lab manual pages Posters/charts Books/text	Lab experiments Lab reports Quizzes Discussions Teacher observation Student participation

	Standards/Goals	Instructional Tools	Assessment Tools
2.11 Health/Social Science (Nutrition, Keeping Healthy)	a. Identify features of proper nutrition and how it keeps us healthy. b. Explain why exercise is important to health. c. Determine that cleanliness contributes to good health. d. Identify ways to stay healthy.	Lab equipment Lab manual pages Science lab Posters/charts Books/text	Lab experiments Lab reports Quizzes Discussions Teacher observation Student participation