

Seventh grade science students at St. Patrick's will develop into individuals with the ability to understand the ways of the physical world. They will be introduced to such topics as: earthquakes, oceans, volcanoes, astronomy, weather, water, rocks & minerals, etc. With all of this information, 7th grade students at St. Patrick's will have the ability to know the whys and hows that happen on a daily basis. By the end of the 7th grade term, these students will have obtained enough knowledge about our physical world that they will appreciate things in an altogether different manner. Labs will be utilized as much as possible as well as projects, group work, and many other instances of cooperative learning.

	<u>Standards/Goals</u>	<u>Instructional Tools</u>	<u>Assessment Tools</u>
7.1 The Earth	Students will gain an understanding of the earth and its make up <ul style="list-style-type: none"> a. plate tectonics <ul style="list-style-type: none"> - interior, pangea, sea-floor spreading b. earthquakes <ul style="list-style-type: none"> - force & crust, waves, safety c. volcanoes <ul style="list-style-type: none"> - eruptions, landforms d. minerals <ul style="list-style-type: none"> - properties, formation e. rocks <ul style="list-style-type: none"> - igneous, sedimentary, metamorphic 	Text Notes Visual Demos Quick Clips Planet Earth Pop Mineral Samples Rock Samples Scratch Plates Nails Sand Debate Labs	Chapter Test Quizzes Note Check Mimio Quizzes Matching Games Observation Labs
7.2 Space	Students will gain an understanding of space and its wonders <ul style="list-style-type: none"> a. astronomy b. earth and space <ul style="list-style-type: none"> - earth, moon, sun - relationships c. exploring space d. solar system <ul style="list-style-type: none"> - the sun, planets, comets, asteroids, life beyond e. universe <ul style="list-style-type: none"> - galaxies, stars, systems, expansion 	Text Notes Star-Lab Constellation Charts Math w/ distances Peer Teaching Imagination Models Venn Diagrams Labs	Chapter Tests Quizzes Observations Peer Teaching Rubric Note Checks Lesson Questions Labs

	<u>Standards/Goals</u>	<u>Instructional Tools</u>	<u>Assessment Tools</u>
7.3 Weather and Climate	Students will gain an understanding of weather and climate <ul style="list-style-type: none"> a. the atmosphere <ul style="list-style-type: none"> - layers - environmental issues b. weather factors <ul style="list-style-type: none"> - energy, winds, water in the atmosphere, precip. c. weather patterns <ul style="list-style-type: none"> - masses, fronts, storms d. climate <ul style="list-style-type: none"> - regions, long-term 	Text Notes Speakers (meteorologists) Visuals Math Metaphors Thermometers Hydrometers Barometers Wind Gauge Labs	Chapter Tests Quizzes Observation Star Journal Note Checks Speaker Observation Form Labs
7.4 Water	Students will gain an understanding of water <ul style="list-style-type: none"> a. water <ul style="list-style-type: none"> - properties, surface water wetlands, groundwater b. freshwater <ul style="list-style-type: none"> - supply & demand, pollution, drought, floods c. oceans <ul style="list-style-type: none"> - waves, space, integration currents, climate d. ocean zones <ul style="list-style-type: none"> - habitats, intertidal zones neritic zone, open ocean, resources 	Text Notes Charts Water Samples Microscopes Visuals Quick Clips Venn Diagrams Debate Labs	Chapter Tests Quizzes Worksheets Observation Note Checks Essays Labs