

Grade 2 Unit	Major Outcomes	Catholic Identity	Assessments/ activities	Resources
Science Processes	<p><u>Inquiry Process</u> <i>K-7 Standard S.IP: Develop an understanding that scientific inquiry and reasoning involves observing, questioning, investigating, recording, and developing solutions to problems.</i></p> <p>S.IP.E.1 Inquiry involves generating questions, conducting investigations, and developing solutions to problems through reasoning and observation.</p> <p>S.IP.02.11 Make purposeful observation of the natural world using the appropriate senses. S.IP.02.12 Generate questions based on observations. S.IP.02.13 Plan and conduct simple investigations. S.IP.02.14 Manipulate simple tools (ruler, meter stick, measuring cups, hand lens, thermometer, balance) that aid observation and data collection. SIP.02.15 Make accurate measurements with appropriate units (meter, centimeter) for measurement tool. S.IP.02.16 Construct simple charts and graphs from data and observations.</p> <p><u>Inquiry Analysis and Communication</u></p> <p>K-7 Standard S.IA: Develop an understanding that scientific inquiry and investigations require analysis and communication of findings, using appropriate technology.</p> <p>S.IA.E.1 Inquiry includes an analysis and presentation of findings that lead to future questions, research, and investigations.</p> <p>S.IA.02.12 Share ideas about science through purposeful conversation. S.IA.02.13 Communicate and present findings of observations. S.IA.02.14 Develop strategies and skills for information gathering and problem solving (books, internet, ask an expert, observation, investigation, technology tools).</p>	<p>Understands science from the prospective that God created a well-ordered universe</p> <p>Shares solution and reasoning</p> <p>Considers and respects ideas of others</p>		<p><u>Water, Step-by-Step Series,</u> Carson-Dellosa Publishing Co.</p> <p><u>The Bug Book,</u> By Robin Bernard, Scholastic Professional Books</p> <p>Various picture books</p> <p>Various writing methods</p>

	<p>Reflection and Social Implications <i>K-7 Standard S.RS: Develop an understanding that claims and evidence for their scientific merit should be analyzed. Understand how scientists decide what constitutes scientific knowledge. Develop an understanding of the importance of reflection on scientific knowledge and its application to new situations to better understand the role of science in society and technology.</i></p> <p>S.S.E.1 Reflecting on knowledge is the application of scientific knowledge to new and different situations. Reflecting on knowledge requires careful analysis of evidence that guides decision-making and the application of science throughout history and within society.</p> <p>S.RS.02.11 Demonstrate scientific concepts through various illustrations, performances, models, exhibits, and activities. S.RS.02.13 Recognize that when a science investigation is done the way it was done before, similar results are expected. S.RS.02.15 Use evidence when communicating scientific ideas. S.RS.02.16 Identify technology used in everyday life.</p>			
<p>Life Cycle of Insect (Life Science)</p>	<p>Organization of Living Things <i>K-7 Standard L.OL: Develop an understanding that plants and animals (including humans) have basic requirements for maintaining life which include the need for air, water, and a source of energy. Understand that all life forms can be classified as producers, consumers, or decomposers as they are all part of a global food chain where food/energy is supplied by plants which need light to produce food/energy. Develop an understanding that plants and animals can be classified by observable traits and physical characteristics. Understand that all living organisms are composed of cells and they exhibit cell growth and division. Understand that all plants and animals have a definite life cycle, body parts, and systems to perform specific life functions.</i></p>	<p>Sense of wonder and awe</p> <p>Understands science from the perspective that God created a well-ordered universe</p>		<p><u>The Bug Book</u>, By Robin Bernard, Scholastic Professional Books</p> <p>Various Videos</p> <p>Posters</p> <p>Various Picture</p>

L.OL.E.1 Life Requirements- Organisms have basic needs. Animals and plants need air, water, and food. Plants also require light. Plants and animals use food as a source of energy and as a source of building material for growth and repair.

L.OL.E.2 Life Cycles- Plants and animals have life cycles. Both plants and animals begin life and develop into adults, reproduce, and eventually die. The details of this life cycle are different for different organisms.

Heredity from gr.1

***K-7 Standard L.HE:** Develop an understanding that all life forms must reproduce to survive. Understand that characteristics of mature plants and animals may be inherited or acquired and that only inherited traits are passed on to their young. Understand that inherited traits can be influenced by changes in the environment and by genetics.*

L.HE.E.1 Observable Characteristics- Plants and animals share many, but not all, characteristics of their parents.

L.HE.01.11 Identify characteristics (for example: body coverings, beak shape, number of legs, body parts) that are passed on from parents to young.

L.HE.01.12 Classify young animals based on characteristics that are passed on from parents (for example: dogs/puppies, cats/kittens, cows/calves, chicken/chicks). **L.HE.01.11** Identify characteristics (for example: body coverings, beak shape, number of legs, body parts) that are passed on from parents to young.

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Evolution from gr. 3

L.EV.E.1 Environmental Adaptation- Different kinds of organisms have characteristics that help them to live in different environments.

books

	<p>L.EV.03.12 Relate characteristics and functions of observable body parts to the ability of animals to live in their environment (sharp teeth, claws, color, body coverings).</p> <p>L.EV.E.1 Environmental Adaptation- Different kinds of organisms have characteristics that help them to live in different environments.</p> <p>L.EV.E.1 Environmental Adaptation- Different kinds of organisms have characteristics that help them to live in different environments.</p>			
<p>Water Cycle</p> <p>(Earth Science)</p>	<p>Fluid Earth</p> <p>K-7 Standard E.FE: <i>Develop an understanding that Earth is a planet nearly covered with water and that water on Earth can be found in three states, solid, liquid, and gas. Understand how water on Earth moves in predictable patterns. Understand Earth’s atmosphere as a mixture of gases and water vapor.</i></p> <p>E.FE.E.1 Water- Water is a natural resource and is found under the ground, on the surface of the Earth, and in the sky. It exists in three states (liquid, solid, gas) and can go back and forth from one form to another.</p> <p>E.FE.02.11 Identify water sources (wells, springs, lakes, rivers, oceans).</p> <p>E.FE.02.12 Identify household uses of water (drinking, cleaning, food preparation).</p> <p>E.FE.02.13 Describe the properties of water as a liquid (visible, flowing, shape of container and recognize rain, dew, and fog as water in its liquid state. *</p> <p>E.FE.02.14 Describe the properties of water as a solid (hard, visible, frozen, cold) and recognize ice, snow, and hail as water in its solid state. E.FE.E.2 Water Movement- Water moves in predictable patterns.</p> <p>E.FE.02.21 Describe how rain collects on the surface of the Earth and flows downhill into bodies of water (streams, rivers, lakes, oceans) or into the ground.</p> <p>E.FE.02.22 Describe the major bodies of water on the Earth’s surface (lakes, ponds, oceans, rivers, streams).</p>	<p>Sense of wonder and awe</p> <p>Understands science from the perspective that God created a well-ordered universe</p>	<p>Understands Water Cycle</p> <p>Understands processes of condensation, evaporation, precipitation</p> <p>Recognize and identify other forms of condensation, evaporation, precipitation</p>	<p><u>Water</u>, Step-by-Step Series, Carson-Dellosa Publishing Co</p> <p>Various videos</p> <p>Various Picture Books</p> <p>Epa.gov website</p> <p>posters</p>

Ear/Eye	From MI Model: Understand the Ear	Sense of wonder and awe		MI Model
(Human Body Systems)	Understand the Eye	Understands science from the perspective that God created a well-ordered universe		Extra handouts Various Videos Posters Helen Keller biography