

**Standard A** Science Connections that reveal God’s creation

<b>DIOCESAN REQUIREMENTS</b>
<b>CONCEPTS, SKILLS, &amp; CATHOLIC FAITH CONNECTIONS</b>
1. Discuss ecosystems in balance and habitat relationships - the dependency of living things. Earth resources and the environment reveal God’s order and design.
2. Study God’s plan of systems, order, and organization.

<b>LOCAL LEVEL SCHOOL ELEMENTS</b>					
Text Alignment	Quarter / Date Taught				
	1	2	3	4	Assessment

<b>EMPHASIS &amp; RESOURCES</b>	<b>ACTIVITIES</b>	<b>COMMON CORE STANDARDS</b>
<p><b>Religious Emphasis:</b> Students are taught that God created the world out of nothing. All man-made creations are made from the resources given by God. Students are taught that there is a distinction between animal reproduction and human reproduction. All living creatures receive life from God, but humans also receive an immortal soul from God that will live forever.</p> <p><b>Religious Resources:</b>  <b>CCC:</b> 41, 32, 302 God created all.  <b>B:</b> Gen 1:14-19 God creates days and years.                      Psalm 104:19 Setting time, months                      Ecclesiastes 3:1-8 A time for everything  <b>RC:</b> # 1 God created us.</p> <p>Talk about Blessed Kateri Tekakwitha, Patron of Environmentalists</p>	<p>A. Talk about how God created order in time, minutes, hours, days, months, and years.</p> <p>B. Discuss God’s plan for the interdependency of the food web.</p> <p>C. Talk about how using Earth resources effect the environment. Discuss how we can take good care of the world God gave us.</p> <p>D. Identify Gods plan for creation and the maintenance of life.</p> <p><b>Prayer:</b> Remember to thank God for giving us Earth’s resources to use responsibly.</p> <p>Thank God for our ecosystem and everything we need that is part of His plan for us.</p>	<p><b>Life Science</b> Core Idea 3: Organisms and populations of organisms obtain necessary resources from their environment which includes other organisms and physical factors.</p> <p>A. Independent relationships in ecosystems.</p> <p>C. Ecosystems dynamics, stability, and resilience.</p>

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Grade: 3

Subject: Science

**Standard B** The Nature of Science as created by God and discovered by man

<b>DIOCESAN REQUIREMENTS</b>
<b>CONCEPTS, SKILLS, &amp; CATHOLIC FAITH CONNECTIONS</b>
1. Identify vocations in the field of Science.
2. Name some famous scientists and how they contributed to history.

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	1	2	3	4	Assessment

<b>EMPHASIS &amp; RESOURCES</b>	<b>ACTIVITIES</b>	<b>COMMON CORE STANDARDS</b>
<p><b>Religious Emphasis:</b> Students are taught that God created the world out of nothing. All man-made creations are made from the resources given by God.</p> <p><b>Religious Resources:</b>  <b>CCC:</b> 2293 Research, Experiments, Inventions.  <b>CCC:</b> 340 Creation depends on other things or creatures.  <b>RC:</b> # 4 God loves us.  <b>RC:</b> # 9 God created us in his image.            Talk about St. Catherine of Siena-Patron of nurses.            Talk about St. Albert the Great-Patron of scientists.</p>	<p>A. Talk about the life of scientists and how they use their God-given skills and talents to contribute to the field of science.</p> <p>B. Identify the responsibility of scientists to report information accurately and truthfully in accord with God’s commandments.</p> <p><b>Prayer:</b>            Ask God for people to choose careers in science, who will help us in the future.</p> <p>Thank God for the scientist who discovered ways to make us healthier.</p>	<p><b>Engineering and Technology</b>            Core Idea 2: Engineering design is a creative and iterative process for identifying and solving problems in the face of various constraints.            A. Defining and researching technological problems.</p>

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**Standard C** Science Inquiry that reflects God’s created order

<b>DIOCESAN REQUIREMENTS</b>
<b>CONCEPTS, SKILLS, &amp; CATHOLIC FAITH CONNECTIONS</b>
1. Solve a problem through Scientific Inquiry - Experimentation, Observation, Measurement, Data Collection, Form and Function.
2. Using the intellectual gifts God gave you, predict, compare, and classify.
3. Use Scientific Tools of Measurement that were invented by creative and talented scientists.

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	1	2	3	4	Assessment

<b>EMPHASIS &amp; RESOURCES</b>	<b>ACTIVITIES</b>	<b>COMMON CORE STANDARDS</b>
<p><b>Religious Emphasis:</b> Students are taught that God created the world out of nothing. All man-made creations are made from the resources given by God</p>	<p>A. Answer a scientific question by using data to construct a graph or pictorial representation using the talents and skills God gave you.</p> <p>B. Choose standard tools to measure matter (balance, graduated cylinders, scales). Make predictions about the weight and volume of various objects and measure to determine accuracy.</p>	<p><b>Engineering and Technology</b></p> <p>Core Idea 2: Engineering design is a creative and iterative process for identifying and solving problems in the face of various constraints.</p> <p style="padding-left: 40px;">A. Defining and researching technological problems.</p>
<p><b>Religious Resources:</b> CCC: 299 The Universe is ordered.</p> <p>CCC: 2415 Research, Experiments, Inventions</p> <p>Diocesan Virtues Program - Fortitude</p>	<p><b>Prayer:</b> Thank God for our ability to use scientific tools so we can learn about the world He gave us.</p> <p>Praise God for our ability to think so that we can predict and compare things in the Universe.</p>	

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**Standard D** Physical Science as created by God

DIOCESAN REQUIREMENTS	
CONCEPTS, SKILLS, & CATHOLIC FAITH CONNECTIONS	
Investigate God’s laws of :	
1.	Matter, Energy, Sound.
2.	Forces in Motion.
3.	Electricity, Magnetism.

LOCAL LEVEL SCHOOL ELEMENTS					
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	1	2	3	4	

EMPHASIS & RESOURCES	ACTIVITIES	COMMON CORE STANDARDS
<p><b>Religious Emphasis:</b> Students are taught that God created the world out of nothing. All man-made creations are made from the resources given by God.</p>	<p>A. Explore and describe different ways God has given us to produce heat (friction, burning, mixing).</p> <p>B. Demonstrate tones of different pitch and volume. Describe God’s plan of how sound travels.</p> <p>C. Use toy cars on ramps at different levels to discuss the forces in motion that reveal God’s order and design.</p> <p>D. Push and pull magnets to observe God’s order and design on forces in motion.</p>	<p><b>Physical Science</b></p> <p>Core Idea 3: Transfers of energy within and between systems never change the total amount of energy but energy tends to become more dispersed; energy availability regulates what can occur in any process.</p> <p>C. Relationship between energy and forces.</p>
<p><b>Religious Resources:</b> <b>B:</b> Mark 4:23-24 Ears listen, practice what you hear. Talk about St Cecilia-Patron Saint of Musicians</p>	<p><b>Prayer:</b> Remember to thank God for our ears and the gift of sound to hear and communicate. Remember to thank God for the gift electricity to make our lives easier.</p>	

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**Standard E** Earth and Space Science as created by God

<b>DIOCESAN REQUIREMENTS</b>
<b>CONCEPTS, SKILLS, &amp; CATHOLIC FAITH CONNECTIONS</b>
1. How does God’s gifts of weather and climate affect rocks and minerals?
2. Explore God’s Universe through objects in Space.
3. Study God’s gifts of Ocean/Water, Land/Soil, and Forces that Shape the Earth.

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<b>EMPHASIS &amp; RESOURCES</b>	<b>ACTIVITIES</b>	<b>COMMON CORE STANDARDS</b>
<p><b>Religious:</b> Students are taught that God created the world out of nothing.</p>	<p>A. Discuss God’s plan of how the moon affects Earths’ oceans. B. Make a model of the Earth to describe why God’s plan gives Wisconsin 4 seasons. C. Study models of the planets to discuss size and position in relation to the sun. D. Discuss the properties of soil and rocks and describe how erosion affects them.</p>	<p><b>Earth and Space Science</b> Core Idea 1: Humans are a small part of a vast Universe; planet Earth is part of the Solar System, which is part of the Milky Way galaxy, which is one hundreds of billions of galaxies in the Universe. C. Earth and Solar System Core Idea 3: Earth’s surface continually changes from the cycling of water and rock driven by sunlight and gravity.</p>
<p><b>Religious Resources:</b>  CCC: 2415 Use resources for common good. CCC: 373 Humans are stewards of the Earth. CCC: 341 The universe is beautiful. CCC: 302 The universe is journeying.</p>	<p><b>Prayer:</b> Remember to thank God for the gift of order as He gives us everything we need to live on Earth and in Heaven. Remember to thank God for our intelligence to explore, investigate and understand this beautiful Earth He gave us.</p>	<p>B. Formation and alteration of rocks and landforms. C. Weather and Climate</p>

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**Standard F** Life and Environmental Science as created by God

<b>DIOCESAN REQUIREMENTS</b>
<b>CONCEPTS, SKILLS, &amp; CATHOLIC FAITH CONNECTIONS</b>
1. Study God’s creations of : Plants and Animals.
2. Identify characteristics of Plants.
3. Identify characteristics of Animals.
4. Study the Life Cycle of Organisms according to God’s plan.
5. Identify Organisms and their Environments.

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	1	2	3	4	Assessment

<b>EMPHASIS &amp; RESOURCES</b>	<b>ACTIVITIES</b>	<b>COMMON CORE STANDARDS</b>
<p><b>Religious Emphasis:</b></p> <p>Students are taught that God created the world out of nothing. Students are taught that there is a distinction between animal reproduction and human reproduction. All living creatures receive life from God, but humans also receive an immortal soul from God that will live forever.</p>	<p>A. Discuss God’s plan of how animal behavior can adapt to different environments.</p> <p>B. Discuss God’s plan of survival advantages for some species.</p> <p>C. Discuss likenesses/differences of life cycles in God’s plan.</p> <p>D. Describe the parts of a simple plant and what the parts do for the plant that reveal God’s order and design.</p>	<p><b>Life Science</b></p> <p>Core Idea 1: Organisms have structures and functions that facilitate their life processes, growth, and reproduction.</p> <p style="padding-left: 20px;">A. Structure and function</p> <p style="padding-left: 20px;">B. Growth and Development</p> <p>Core Idea 3: Organisms and populations of organisms obtain necessary resources from their environment which includes other organisms and physical factors.</p> <p style="padding-left: 20px;">B. Flow of matter and energy transfer in Ecosystems</p> <p>Core Idea 4: Biological evolution explains the unity and diversity of species.</p> <p style="padding-left: 20px;">C. Natural selection and adaptation</p>
<p><b>Religious Resources:</b></p> <p>CCC:41, 32, 302 God created all.</p> <p><b>B:</b> 1 Corinthians 6:13, 20 Food is for the stomach and the stomach for food.</p> <p>Diocesan Virtues Program - Respect</p> <p>Acts 4:32-37 Everything was shared, no one claimed private ownership.</p> <p>Talk about St. Isidore –Patron of Farmers</p>	<p><b>Prayer:</b></p> <p>Thank God for the plants and animals he gave us to help us live in our environment.</p> <p>Ask God for the gift He gave human people to be able to adapt to different environments.</p>	

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**Standard G** Science Applications that reflect God’s goodness

<b>DIOCESAN REQUIREMENTS</b>
<b>CONCEPTS, SKILLS, &amp; CATHOLIC FAITH CONNECTIONS</b>
1. How do machines make our work easier?
2. Using the gifts God gave you, problem solve using simple machines.

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<b>EMPHASIS &amp; RESOURCES</b>	<b>ACTIVITIES</b>	<b>COMMON CORE STANDARDS</b>
<p><b>Religion Emphasis:</b> Students are taught that God created the world out of nothing. All man-made products and inventions are made from the resources given by God.</p> <p><b>Religious Resources:</b> <b>CCC:</b> 2293 Research Experiments and Inventions</p> <p><b>B:</b> Genesis: 6,7,8 Noah Building and Ark</p> <p>Talk about St. Stephen of Hungry-Patron of builders.</p>	<p>A. Using God’s gift of intelligence, plan and conduct a simple experiment and problem solve by asking questions and devising ways to answer them.</p> <p>B. Using God’s gifts of creativity and intelligence, invent simple machines using rubber bands and other household materials, then talk about the work they could do.</p> <p><b>Prayer:</b> Thank God for the simple machines that make our lives easier. Praise God for our reasoning ability to solve problems.</p>	<p><b>Engineering Technology</b> Core Idea 1: The study of the designed world is the study of designed systems, processes, materials, and products of the technologies and scientific principles by which they function .</p> <p style="padding-left: 20px;">A. Nature of technology B. Using tools and materials</p> <p>Core Idea 2: Engineering design is a creative and iterative process for identifying and solving problems in the face of constraints.</p> <p style="padding-left: 20px;">A. Defining and researching technological problems. B. Generating and evaluating solutions C. Optimizing and making tradeoffs</p>

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**Standard H** Personal, Social, and Moral Aspects of Science

<b>DIOCESAN REQUIREMENTS</b>
<b>CONCEPTS, SKILLS, &amp; CATHOLIC FAITH CONNECTIONS</b>
1. Identify the value of machinery, tools, and technology in our lives.
2. Discuss the benefits of good nutrition and healthy diets.
3. Identify the gifts God gave us for growing food.
4. Identify the gifts God gave us for raising cattle.

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<p><b>Religious Emphasis:</b></p> <p>Students are taught that God created the world out of nothing. All man-made creations are made from the resources given by God. Students are taught that there is a distinction between animal reproduction and human reproduction. All living creatures receive life from God, but humans also receive an immortal soul from God that will live forever.</p>	<p>A. Discuss how technology, machinery, and transportation have influenced the growth of crops and the way we get food to the market. Identify God-given talents necessary to grow the food, transport the food, and sell the food.</p> <p>B. Experiment with rotting fruit. In God’s plan, how long does the fruit last before rotting? How long can it take to get the food the market?</p> <p>C. Describe a nutritious diet. Using the intellectual gifts God gave us, make simple menus of nutritious foods.</p>	<p><b>Life Science</b></p> <p>Core Idea 1: Organisms have structure and functions that facilitate their life processes, growth, and reproduction.</p> <p style="padding-left: 20px;">A. Structure and function C. Organization for matter and energy flow in organisms</p> <p>Core Idea 3: Organisms and populations of organisms obtain necessary resources from their environment which includes other organisms and physical factors.</p> <p style="padding-left: 20px;">A. Interdependent relationships in ecosystems. B. Flow of matter and energy transfer in ecosystems. C. Ecosystems dynamics, stability, and resilience.</p>
<p><b>Religious Resources:</b></p> <p><b>B:</b> Luke 9:10-17 Loaves and Fishes-God gives us what we need.</p> <p>Talk about St. Martha-Patron of Nutritionists</p>	<p><b>Prayer:</b></p> <p>Thank God for the food we eat and for the people who make that happen from the farms to the stores.</p> <p>Thank God for our Health.</p>	

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