Standard A Science Connections that reveal God's creation

DIOCESAN REQU	IREMENT		LOCAL LEVEL SCHOOL ELEMENT							
CONCEPTS, SK	/		Text	Quarter / Date Taught						
& CATHOLIC FAITH C	ONNECTIONS		Alignment	1	2	3	4	Assessment		
 Observation –Awareness of changes in the (seasonal changes in nature, growth of infa to ice). Identify what God has created (plants, anir rivers – living and non-living). 	ints, chemical changes from water									
3. Sequence of events – metamorphosis of bu	tterflies and frogs.									
EMPHASIS & RESOURCES	ACTIVITIES				COM	IMON	COF	RE STANDARDS		
 Religious: Students are taught to take care of the gifts that they have been given by God. This is called stewardship. God creates the plants and the animals. Religious Resources: RC: Creed #3 God is the creator RC: Prayer Life #10 B: Genesis 1:1-2:4 The Creation Story Genesis 3:1-24 The Garden of Eden 	 A. Place pictures in a proper seque according to God's plan (e.g. life c insect/animal development). B. Take pictures of changes in obje year, or within specific units (e.g. t classroom animals, weather, meltir C. Develop simple discussion ques changes in our God-given environt Prayer: Praise God for creating us and our Remember to thank God for the pla animals he created in His beautiful 	 world. world. ants and functions that facilitate their life processes, growth, and reproduction. A. Structure and function B. Growth and development of organism Earth and Space Science Core Idea 3:Earth's surface continually change from the cycling of water and rock driven by sunlight and gravity.								
CCC: Catechism of the Catholic Churc B: Bible		sn	n Compene	C	. Trans			change within all systems. matter		

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

LOCAL LEVEL SCHOOL ELEMENTS **DIOCESAN REQUIREMENTS** CONCEPTS, SKILLS, Text **Quarter / Date Taught** & CATHOLIC FAITH CONNECTIONS Alignment 1 2 3 1. Awareness of vocations that are related to science. 2. Investigate how science careers impact our life. 3. Determine what kind of career works with plants, animals, humans, rivers, rocks, etc.

EMPHASIS & RESOURCES	ACTIVITIES	COMMON CORE STANDARDS
Religious: Students are taught to take care of the gifts that they have been given by God.	A. Guest Speakers (science career)	Engineering and Technology Core Idea 4: In today's modern world everyone makes technological decisions
This is called stewardship.	B. Dress up day (science related career) Role play a science related career in learning centers (astronaut, doctor, nurse, researcher).	that affect or are affected by technology on a daily basis. Consequently, it is essential for all citizens to understand the ricks and reaponsibilities that accompany
God gives all of us gifts and talents to use.	C. Describe how men and women in science related careers (e.g. computer tech, medical) impact our lives in a good way.	risks and responsibilities that accompany such decisions. B. Interactions of technology and
Science Examples: RC: Life in Christ #9 God loves everyone Tell a story -Mother Theresa (physical and spiritual needs of the poor) Tell stories about St. Catherine of Siena (Patron of Nurses) and St. Cosmas (Patron of Doctors)	Prayer: Remember to thank God for the people in science who help us every day. Ask God for gifts and talents to help us to do our work.	environment C. Analyzing issues involving technology and society
CCC: Catechism of the Catholic Churc B: Bible	ch CC: Catechism Compen RC: Religion Curriculum	

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Assessment

Standard C Science Inquiry that reflects God's created order

DIOCESAN REQUIREMENTS		LOCAL LEVEL SCHOOL ELEMENTS									
CONCEPTS, SKILLS,		Quarter / Date Taught									
& CATHOLIC FAITH CONNECTIONS	Alignment	1	2	3	4	Assessment					
1. Predict what will happen by using prior knowledge God has given you –											
compare and categorize.											
2. Use basic science tools for observation and measurement.											
3. Compare objects (color, weight, size) and classify.											

EMPHASIS & RESOURCES	ACTIVITIES	COMMON CORE STANDARDS
Religious Emphasis:		Engineering and Technology
	A. Predict what will happen using magnets and	Core Idea 1: The study of the designed
Students are taught to take care of the gifts that they have been given by God. This is called stewardship. God gave man the gift to think and learn.	 dominos using the gift from God to think and to learn. B. Use basic science tools (invented using God's gift of intelligence) to explore the God-given environment (e.g. magnifying glass, insect box, thermometers, etc.). 	world is the study of designed systems, processes, materials, and products and of the technologies and the scientific principles by which they function. C. Using tools and materials
	C. Classify and compare common classroom	
Religious Resources:	objects for the same color, weight, or size. Prayer:	
RC : Life in Christ #12 God gives us	Remember to thank God for our human ability	
everything	to compare things and to predict outcomes.	
B. Matt. 14: 22-33 Jesus Walks on Water	Remember to thank God for giving us the basic tools of science.	
Talk about St. Albert the Great (Patron Saint		
of Science)		
CCC: Catechism of the Catholic Churc	•	
B: Bible	RC: Religion Curriculum	

Standard D Physical Science as created by God

DIOCESAN REQUIREMENTS CONCEPTS, SKILLS, & CATHOLIC FAITH CONNECTIONS 1. Observation of God's laws of objects in motion and at rest.

1. Observation of God's laws of objects in motion

2. Predict physical changes.

3. Forces in Motion - Predict objects in motion and at a state of rest.

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

EMPHASIS & RESOURCES	ACTIVITIES	COMMON CORE STANDARDS
Religious Emphasis:	A. Learn God's law of density by doing sink or	Physical Science
Students are taught to take care of the gifts	float experiments.	Core Idea 2: Forces due to fundamental
that they have been given by God.	B. Demonstrate pendulum motions.	interactions underlie all matter structures
This is called stewardship.	C. Explore God's law of magnetism using	and transformations balance or imbalance
-	magnets.	of forces determines stability and change
God gave us the gift of intelligence to think	D. Describe observable changes in objects and	within all systems.
and to learn.	speculate as to what caused them (e.g. colored	A. Fundamental interactions
	paper exposed to the sun, etc.).	B. Motion and stability
	E. Determine how to put objects at rest into	
	motion (swings, bat and ball, etc.) and describe	
	what God gave us to cause the movement.	
Religious Resources:	Prayer:	
RC : Life in Christ #12 God gives us	Remember to thank God for the gift of motion	
everything	because without motion we could not take care	
	of ourselves.	
B: Genesis 6:11 to 8:19 Noah's Ark	Demember to themb Cod for the eift of motion	
	Remember to thank God for the gift of motion because without it we could not play games like	
Tell the story of Dominican Theodore of	baseball or football.	
Freiburg (First to give correct explanation of		
the rainbow)		
CCC: Catechism of the Catholic Churc	h CC: Catechism Compene	dium
B: Bible	RC: Religion Curriculum	

Standard E Earth and Space Science as created by God

DIOCESAN REQUIREMENTS			LOCAL LEVEL SCHOOL ELEMENT							
CONCEPTS, SK	ILLS,		Text	Quarter / Date Taught						
& CATHOLIC FAITH C	ONNECTIONS		Alignment	1	2	3	4	Assessment		
1. Space Science - Observe, identify and desc	cribe various objects that God									
created and are found in the sky.										
2. Identify basic landforms found in the local	area.									
3. Identify how local people use the land for	work and recreation.									
4. Weather - Data collection by observing and										
EMPHASIS & RESOURCES	ACTIVITIES			COM	IMON	N COI	RE STANDARDS			
Religious:	A. Observe and name land formations created			Earth and Space Science						
	by God.			Core Idea 1: Humans are a small part						
Students are taught to take care of the gifts that	B. Discuss the importance of God'	s g	gift of the	vast universe; planet Earth is part of the						
they have been given by God.	Sun (heat, light). Discuss God's o	the	er creations	Solar System which is part of the Milky						
This is called stewardship.	found in space (Moon and Stars).			Way galaxy, which is on of hundreds of						
God created the earth and sky.	C. Chart God's gift of the weather	ov	er a period							
	of time.		•	A. The universe						
Religious Resources:	Prayer:			C. Earth and the Solar System						
RC: Life in Christ #12 God gives us everything	•	_		Core	e Idea	3: E	arth's	surface continually		
RC: Prayer Life #10 We thank God	Praise God for the sun so we can b	e v	varm.	char	iges fi	rom tl	he cyc	cling of water and		
	rock driven by sunlig					the state of the s				
CCC: 2404, 2405 Use the land to benefit the	Thank God for the rivers and streams so		so we can	A	A. The	e role	s of w	ater in Earth's		
greatest number	fish and swim.			surface processes						
B: Mark 1:9-11 Baptism of Jesus (river)			C 1	d alteration of rocks						
Exodus 19:16 to 20:21 Moses on the	Thank God for the farm land to gro	OW	our food.	and landforms						
Mountain (mountain)				C. Weather and climate						
Matt 4:1-11 Jesus in the Desert (desert)				-				-		

Matt 26:36-56 Jesus in the Garden (garden) CCC: Catechism of the Catholic Church B: Bible

CC: Catechism Compendium RC: Religion Curriculum **Grade:** Kindergarten

Standard F Life and Environmental Science as created by God

DIOCESAN REQUIREMENTS		LOCAI	L ELEMENTS							
CONCEPTS, SI	KILLS,	Text	Quarter / Date Taught							
& CATHOLIC FAITH C	ONNECTIONS	Alignment	1	2	3	4	Assessment			
1. Explain the basic needs of the animals that	God created.									
2. Littering – How it affects our God-given er	vironment and animals.									
3. Compare - living things and non-living thir	igs .									
4. Basic experimentation - Observe what a pla	ant needs in order to grow.									
5. Recognize how people depend on plants an	d animals in everyday life.									
EMPHASIS & RESOURCES	ACTIVITIES			COM	IMON	COR	E STANDARDS			
Religious Emphasis: Students are taught to take care of the gifts that they have been given by God. This is called stewardship. God created living and non-living things. God made living and non-living things different.	 A. Discuss animal habitats. Describe how I the environment God has provided for the set of the environment God has provided for the set of the set of the environment God has provided for the set of the environment of the environment	animals. scribe how the others. s God helps and nonliving	Core funct grow A B Core and J of tra C Core	The Science re Idea 1: Organisms have structures and ctions that facilitate their life processes, wth, and reproduction. A. Structure and function B. Growth and development of organisms re Idea 2: Organisms have mechanisms processes for passing traits and variations raits from one generation to the next. C. Variation of traits re Idea 3: Organisms and populations of						
 Religious Resources: RC: Creed #3 God is the creator. RC: Life in Christ #12 God gives us everything. CCC: 2415 – 2418 (respect for creation) Talk about St. Isidore (Patron of Farmers) 	Prayer: Remember to thank God for creating the planimals. Ask God to give the animals a place to liveright for them . Praise God for giving us the things that planimals need to grow and be healthy, like visualight.	e that is just nts and	 organisms obtain necessary resources from their environment which includes other organisms and physical factors. A. Independent relationships in ecosystems C. Ecosystems dynamics, stability, and resilience 							

B: Bible

CC: Catechism Compendium RC: Religion Curriculum

Standard G Science Applications that reflect God's goodness

DIOCESAN REQUIREMENTS		LOCAL LEVEL SCHOOL ELEMENTS									
CONCEPTS, SKILLS, & CATHOLIC FAITH CONNECTIONS		Quarter / Date Taught									
		1	2	3	4	Assessment					
1. Investigate how simple machines make work easier through the use of ramps,											
levers, etc.											
2. Observe simple machines in action.											
3. Use the gifts God gave you to problem solve to determine which simple											
machine would work best with specific tasks.											

EMPHASIS & RESOURCES	ACTIVITIES	COMMON CORE STANDARDS						
Religious Emphasis:Students are taught to take care of the giftsthat they have been given by God.This is called stewardship.God gave us simple tools to help us ineveryday life.God gave us the intelligence to think and tochoose.	 A. Using the gifts God has given us to measure objects using the balance scale and move objects by doing lifting activities. B. Use levers, pulleys and ramps to move an object. C. Solve a problem (using the intelligence God gave us) related to students' experiences (e.g. where to put coats, dirty shoes, books). 	Engineering and Technology Core Idea 1: The study of the designed world is the study of designed systems, processes, materials, and products and of the technologies and the scientific principles by which they function. C. Using tools and materials Core Idea 2: Engineering design is a creative and iterative process for						
Religious Resources:RC: Life in Christ #11 Problem solvingB: Luke 5:17-26 Through the Roof	Prayer: Thank God for the gift of simple machines to make our lives easier. Praise God for the gift of our intelligence to know how to use simple machines.	 identifying and solving problems in the face of constraints. A. Defining and researching technological problems. B. Generating and evaluating solutions 						
CCC: Catechism of the Catholic Churc B: Bible	CCC: Catechism of the Catholic ChurchCC: Catechism CompendiumB: BibleRC: Religion Curriculum							

Grade: Kindergarten

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Standard H Personal, Social, and Moral Aspects of Science

DIOCESAN REQUIREMENTS			LOCAL	AL LEVEL SCHOOL ELEMENTS								
CONCEPTS, SKILLS,			Text	Quarter / Date Taught								
& CATHOLIC FAITH C	ONNECTIONS		Alignment	1	2	3	4	Assessment				
1. Identify and discuss technology found in your Catholic school and home that keep students safe (e.g. smoke detector, bike helmet, airbags, etc.).												
EMPHASIS & RESOURCES	ACTIVITIES				COM	IMON	COR	RE STANDARDS				
Religious Emphasis: Students are taught to take care of the gifts that they have been given by God. This is called stewardship. God is always there for us.	 A. Participate in Fire Safety Week how to be safe in a fire. B. Learn who Officer friendly is an how he can keep you safe. C. Practice tornado drills and learn safe in a tornado. D. Learn how to be safe from stran, Safe Environment Curriculum. E. Discuss how God is here to wate 	Engineering and Technology Core Idea 4: In today's modern world everyone makes technological decisions that affect or are affected by technology on a daily basis. Consequently, it is essential for all citizens to understand the risks and responsibilities that accompany such decisions.ers in theA. Interactions of technology and society.										
Religious Resources: RC : Life in Christ #2 We are created in God's image.	Prayer: Ask God to helping us to invent thi our homes safe. Thank God for our guardian angely to help us. Praise God who is always there to h times of need.	elping us to invent things to keep e. r our guardian angel who is there					 B. Interactions of technology and environment. C. Analyzing issues involving technology and society. 					

B: Bible

RC: Religion Curriculum