6TH GRADE

Guidelines for Human Sexuality Education

Based on the understanding that human sexuality education is a right and responsibility of parents, teachers whose curricular material includes human sexuality content are obligated to work together with parents to ensure that parents know what is being taught to their children and how it is being covered.

In grade 6, the curricular areas that address human sexuality education include:

Standard B – Genetics.

Standard F – Genetics and growth and development.

Please consult with your principal and/or pastor to determine the local directives on parental collaboration that are aligned with directives outlined in the May 4, 2011 letter from Bishop William Patrick Callahan. A copy of that letter can be found in the front pocket of this curriculum binder.

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Standard A Science Connections that reveal God's creation

DIOCESAN REQUI		LOCAI	LOCAL LEVEL SCHOOL ELEMEN					
CONCEPTS, SK		Text Quarter / Date Taught			r / Date Taught			
& CATHOLIC FAITH CO		Alignment	1	2	3	4	Assessment	
 Explain how a solution to a problem should inverse on using good stewardship and the common compromise involving ecology and the enviror Describe how a scientific thought has changed guidelines, etc.) and give reasons why these ide Using God's plan, identify organisms in specific or mutually beneficial interactions. 	n good to determine tradeoffs and ment. over time (e.g. solar system, nutrition eas have changed.							
EMPHASIS & RESOURCES	ACTIVITIES		CO	MM	ON C	ORE	E STANDARDS	
Religious Emphasis: Students are taught that creation reflects the infinite beauty of the Creator. Further, scientific study ought to inspire the respect, awe and submission of man's intellect and willingness to tell the truth of Catholic Church Teaching. Students are taught that there is an objective, unchanging truth which is distinct from scientific theory.	 A. In what ways does the sun affect the Earth and all of God's creations of Earth? B. Explain how natural disasters ('ac of God') can affect the land, sea, and skies along with the plants and animals. 	on Core Idea obtain new which inc A. Inde B. Flow C. Eco Earth an	 obtain necessary resources from their environment which includes other organisms and physical factors. A. Independent relationships in ecosystems B. Flow of matter and energy transfer in ecosystems C. Ecosystems dynamics, stability, and resilience Earth and Space Science 					
Religious Resources: RC: Life in Christ – Dignity 3 & 4 Vocations 4 CCC: 290 God created the heavens & earth CCC: 299 God saw that his creation was good CCC: 301 God cares for his creation CCC: 314 God guides his creation <u>http://www.americancatholic.org/Messenger/Oct</u> <u>2007/default.asp</u> St. Anthony Press Read and discuss St. Albert the Great (Patron of Scientists)	Prayer: Ask God for the gift of wisdom whic allows us to make good choices when faced with difficult decisions. Thank God for his plan of creation that provides environments that support and nurture organisms.	the Milky billions o A. The B. Gra C. Ear Engineer Core Idea iterative p the face o A. Def B. Gen C. Opt	 Core Idea 1: Humans are a small part of a vast universe; planet Earth is part of the Solar System wich is part of the Milky Way galaxy, which is one of hundreds of billions of galaxies in the universe. A. The universe B. Gravity, energy, and matter in the universe C. Earth and the Solar System Engineering and Technology Core Idea 2: Engineering design is a creative and iterative process for identifying and solving problems in the face of constrains. A. Defining and researching technological problems B. Generating and making tradeoffs 					
CCC: Catechism of the Catholic Churc B: Bible		echism Co igion Currio			um			

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

DIOCESAN REQUIREMENTS LOCAL LEVEL SCHOOL E		OL ELEMENTS							
CONCEPTS, SKILLS,		Text	Quarter / Date Taught						
& CATHOLIC FAITH CONNECTIONS		Alignment	1	2	3	4	Assessment		
1. Explain how the people, cultures, and environmental conditions led to									
scientific developments in plant growth, hybrid plants, and hybrid crops.									
2. Identify evidence that is used in determining the history of God's creation,									
the Earth.									
3. Study specific chemical changes and explain how they benefit the world God									
gave us.									

EMPHASIS & RESOURCES	ACTIVITIES	COMMON CORE STANDARDS
Religious Emphasis: Students are taught that creation reflects the infinite beauty of the Creator. Further, scientific study ought to inspire the respect, awe and submission of man's intellect and willingness to tell the truth of Catholic Church Teaching.	A. Discuss the pros and cons of fertilizer as it affects produce, the environment, populations, and God's plan of life.B. How do fossils contribute to the study of science?	 Life Science: Core Idea 4: Biological evolution explains the unity and diversity of species. A. Evidence of common ancestry and diversity B. Genetic variation within a species C. Natural selection and adaptation D. Biodiversity and humans Earth and Space Science: Core Idea 2: Earth is a complex and dynamic 4.6 billion-
 Science: RC: Life in Christ-Sin/Choices #10 Stewardship B: 1 Corinthians 12:4-11 Everyone has a different gift: wisdom, healing, prophecy, etc. Read and discuss St. Catherine of Siena (Patron of Nurses) 	Prayer: Thank God for the gift of knowledge and understanding that allows some scientists to determine the best conditions for maximum crop production. Thank God for His gifts of elements that can be combined to make useful mixtures and solutions in this world.	 year-old system of rock, water, air, and life. A. Continental drift, plate tectonics, and Earth's internal heat B. Earth's materials C. Earth's history Physical Science Core Idea 2: Forces due to fundamental interactions underlie all matter structures and transformations balance or imbalance of forces determines stability and change within all systems. A. Fundamental interactions B. Motion and stability C. Transformation of matter
CCC: Catechism of the Catholic Churc B: Bible		echism Compendium gion Curriculum

Diocese of La Crosse

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Standard C Science Inquiry that reflect God's created order

DIOCESAN REQUIREMENTS		LOCAL	LE	VE	L SC	CHC	OOL ELEMENTS	
CONCEPTS, SKILLS,		Text		Quarter / Date Taught				
& CATHOLIC FAITH CONNECTIONS		Alignment	1	2	3	4	Assessment	
1. Design an experiment that addresses a student generated question.								
2. Predict an outcome to the experiment.								
3. Collect evidence to support an answer to the question.								
4. Analyze the data and answer the question.								

EMPHASIS & RESOURCES	ACTIVITIES	COMMON CORE STANDARDS
Religious Emphasis: Scientific study ought to inspire the respect, awe and submission of man's intellect and willingness to tell the truth of Catholic Church Teaching.	A. Using your God given gift of intelligence, describe an experiment that would determine which fabric would be best for winter clothing.B. What kind of evidence would you need for determining the effectiveness of laundry detergent?	Engineering 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. A. Products, processes, and systems
Religious Resources:	Prayer:	B. Nature of technology
 B: John 8:32 The truth will set you free. CCC: 2292-2295 Use research, experiments, and inventions for the common good. Diocesan Virtues Program – Fortitude Read about and discuss Robert Grosseteste (creator of the steps of scientific method) 	Thank God for the gift of sight to see physical and chemical changes during experimentation. Thank God for the gift of 'free will' to choose different paths to use in collecting experimental evidence.	 C. Using tools and materials Core Idea 2: Engineering design is a creative and iterative process for identifying and solving problems in the face of constraints. A. Defining and researching technological problems B. Generating and evaluating solutions C. Optimizing and making tradeoffs
CCC: Catechism of the Catholic Churc B: Bible		ism Compendium n Curriculum

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Standard D Physical Science as created by God

IREMENTS	LOCAL LEVEL SCHOOL ELEMENT						
	Text Quarter / Date Taught			8			
CONNECTIONS	Alignment1234Asses					Assessment	
01							
1 07							
,							
e situations.							
ACTIVITES	0	COMI	MON	I CO	RE S	TANDARDS	
A. How is conversion of energy like conversion through faith?B. Identify technological devices that are attempting to harness the energy of the sun.	 Life Science: Core Idea 3: Organisms and populations of organisms obtain necessary resources from their environment which includes oth organisms and physical factors. A. Independent relationships in ecosystems B. Flow of matter and energy transfer in ecosystems C. Ecosystems dynamics, stability, and resilience Earth and Space Science: Core Idea 1: Humans are a small part of a vast Universe; plane Earth is part of the Solar System which is part of the Milky Wagalaxy, which is on of hundreds of billions of galaxies in the Universe. A. The Universe B. Gravity, energy, and matter in the Universe C. Earth and the Solar System Physical Science 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. A. Descriptions of energy B. Energy for life and practical use. The special role of foo and fuel C. Relationships between energy and forces. 						
Prayer: Thank God for the gift of the Sun which provides heat, light, and energy to our world. Thank God for the gift of energy and for the medical scientists that study energy in humans.							
	 A. How is conversion of energy like conversion through faith? B. Identify technological devices that are attempting to harness the energy of the sun. Prayer: Thank God for the gift of the Sun which provides heat, light, and energy to our world. Thank God for the gift of energy and for the medical scientists that 	CONNECTIONS Alignment arth's energy. Alignment arth's energy.	CONNECTIONSAlignment1arth's energy	CONNECTIONS Alignment 1 2 arth's energy. arth's energy. arth's energy. arth's energy. arth's energy. and mechanical energy. arth's energy. arth's energy. arth's energy. and mechanical energy. arth's energy. arth's energy. arth's energy. arth's energy. etic spectrum. arth's energy. arth's energy. el, describe situations where the esituations. arth's energy in through faith? arth's energy in humans. A. How is conversion of energy like conversion through faith? Life Science: Common B. Identify technological devices that are attempting to harness the energy of the sun. B. Flow of matter and C. Ecosystems dynami Earth and Space Science Prayer: Thank God for the gift of the Sun which provides heat, light, and energy to our world. A. The Universe B. Gravity, energy, and for the medical scientists that study energy in humans. A. Descriptions of energy of the and and fuel	Alignment123arth's energy. ad mechanical energy. ns potential and kinetic energy. etic spectrum. el, describe situations where the e situations.IIIA. How is conversion of energy like conversion through faith? B. Identify technological devices that are attempting to harness the energy of the sun.IIIPrayer:IIIIIIThank God for the gift of the which provides heat, light, and energy to our world.IIIIThank God for the gift of energy and for the medical scientists that study energy in humans.II <t< td=""><td>CONNECTIONS Alignment 1 2 3 4 arth's energy. arth's energy frantice energy frantice energy. arth and the solar System whice galaxy, which is on of hundreds of bil Universe. arth arth and the solar System whice galaxy, which is on of hundreds of bil Universe. a. The Universe B. Gravity, energy, and matter in the context of energy and for the endical scientists that study energy in humans. arth and practical us and fuel arth's energy for life and practical us and fuel</td></t<>	CONNECTIONS Alignment 1 2 3 4 arth's energy. arth's energy frantice energy frantice energy. arth and the solar System whice galaxy, which is on of hundreds of bil Universe. arth arth and the solar System whice galaxy, which is on of hundreds of bil Universe. a. The Universe B. Gravity, energy, and matter in the context of energy and for the endical scientists that study energy in humans. arth and practical us and fuel arth's energy for life and practical us and fuel	

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Standard E Earth and Space Science as created by God

DIOCESAN REQUI	REMENTS		LOCAL	LE	EVE	L SO	CHC	OOL ELEMENTS			
	CONCEPTS, SKILLS,			Text Quarter / Date Taught							
& CATHOLIC FAITH C	ONNECTIONS		Alignment	1	2	3	4	Assessment			
1. Describe the affects of heat and cooling on	the movement of water in the										
ocean.											
2. Analyze the impact of ocean currents on w											
such as El Nino, hurricanes, and the meltin	g of polar ice caps).										
EMPHASIS & RESOURCES	ACTIVITIES			CO	MM(ON C	ORE	STANDARDS			
Religious Emphasis:	A. Identify God's plan of cycles of		Earth an	nd Sj	pace	Scie	nce				
Students are taught that creation reflects the	• Water.							plex and dynamic 4.6			
infinite beauty of the Creator. Further,	• Nitrogen.				•			ock, water, air, and life.			
scientific study ought to inspire the respect,	Energy.						, plat	e tectonics, and Earth's			
awe and submission of man's intellect and	Rocks.		-		l hea						
willingness to tell the truth of Catholic	B. How are the cycles connected?		B. Ea								
Church Teaching.			C. Ea				c				
Science Resources:	Prayer:							continually changes			
B: Matthew 16:1-3 Red sky at night Red	Thank God for his plan to naturally			•	<u> </u>		ter ar	nd rock driven by			
sky in the morning	recycle our water resources.		sunlight a				or in '	Earth's surface			
B: Ecclesiastes 3:1-8 Everything has its time	Thenk Cod for his also of ashuilding	_		cess		wate	51 111 .	Latur S surface			
B: Ecclesiastes 3:11 Past and future are in	Thank God for his plan of rebuilding the earth's surface through the rock	5	1			nd al	terat	ion of rocks and			
their minds	cycle.			dfor		inu ai	terat	ion of focks and			
Read and discuss St. Isadore (Patron of	Cycle.		C. We			d clin	nate				
Farmers) – nitrogen cycle			D. Bio								
ramers) muogen eyere						an ac	tiviti	es are constrained by			
			and, in tu	ırn, a	uffect	t all c	ther	processes at Earth's			
Dead and diamage Laboration Dead and diamage Contraction of the Contra			surface.					-			
Read and discuss John the Baptist (the use of			A. Na								
water)				B. Natural resources							
								e Earth			
			D. Gl				hang	ge			
CCC: Catechism of the Catholic Churc			chism Cor	•		um					
B: Bible	RC: Reli	lig	gion Curric	culu	m						

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Standard F	Life and Environmental Science as created by God
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DIOCESAN REQUI	REMENTS	LOCAL LEVEL SCHOOL ELEMENT					OL ELEMENTS				
CONCEPTS, SK			Text			Qu	arter	/ Date Taught			
& CATHOLIC FAITH CO	ONNECTIONS		Alignment	1	1 2 3 4 Assessment						
1. Choose and present an ecosystem that shows ec		ſ									
and describes the flow of energy through the sy											
2. Present a theory of how stewardship of our natu	aral resources will impact our lives										
and the lives of those around us.		L									
EMPHASIS & RESOURCES	ACTIVITIES			CON	IMO	N CO	ORE S	STANDARDS			
Religious Emphasis:Students are taught that creation reflects the infinitebeauty of the Creator. Further, scientific study oughtto inspire the respect, awe and submission of man'sintellect and willingness to tell the truth of CatholicChurch Teaching.Students are taught that there is an objective,unchanging truth which is distinct from scientifictheory.Religious Resources:	 A. Study the growth and development of plants and animals. B. Identify the influence of stewardship on the environment that God gave us. C. Name ecosystems and identify how living things adapt to the environment within each ecosystem. Prayer: 	0	Life Science Core Idea 1; Organisms have structures and functions that facilitate their life processes, growth, and reproduction. A. Structure and function B. Growth and development of organisms C. Organization for matter and energy flow in organisms Core Idea 2: Organisms have mechanisms and processes								
RC: Creed #7 God gave Adam and Eve everything they needed RC: Life in Christ – Sin/Choices #10 Stewardship and #12 Stewardship	Praise God for all living things.		generation t A. Inheri B. Variat Core Idea 3:	o the tance tion o : Org	next trait of tra anisr	ts its ns an	d popu	f traits from one lations of organisms			
 http://www.usccb.org/depts.shtml Justice, Peace, and Human Development Pro Life Activities – Respect for Life Science and Human Values Read and discuss St. Peter (Patron of Fishermen) – as it relates to weather's affect on the occupation and the resources Read and discuss St. Francis (Patron of Ornithologists) Read and discuss Blessed Kateri Tekawitha – as she relates to wise use of natural resources 	Thank God for the variety of ecosystems and the different species that inhabit the ecosystems.		 obtain necessary resources from their environment which includes other organisms and physical factors. A. Independent relationships in ecosystems B. Flow of matter and energy transfer in ecosystems C. Ecosystems dynamics, stability, and resilience Core Idea 4: Biological evolution explains the unity and diversity of species A. Evidence of Common Ancestry and diversity B. Genetic variation within a species C. Natural selection and adaptation D. Biodiversity and humans 								

CCC: Catechism of the Catholic Church B: Bible CC: Catechism Compendium RC: Religion Curriculum

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Standard G	Science Applications that reflect God's goodness
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DIOCESAN REQUI	REMENTS	LOCAL LEVEL SCHOOL ELEMENT					OOL ELEMENTS	
CONCEPTS, SK		Text Quarter / Date Tau			/ Date Taught			
& CATHOLIC FAITH C	ONNECTIONS	Alignment	1	2	3	4	Assessment	
1. Explore scientific careers including the ski technological knowledge required.								
2. Design a machine or model for a specific p more simple machines.								
3. Gather information on recent scientific and using a variety of resources to identify post efforts on the God-given environment.	-							
EMPHASIS & RESOURCES	ACTIVITIES			CO	MM(ON C	ORE	STANDARDS
Religious Emphasis: Students are taught that creation reflects the infinite beauty of the Creator. Further, scientific study ought to inspire the respect, awe and submission of man's intellect and willingness to tell the truth of Catholic Church Teaching. Students are taught that there is an objective, unchanging truth which is distinct from scientific theory.	A. Research a machine and explain what need it filled and how it works. Also identify the inventor and describe the gif God gave him to create the machine.B. List the scientific inventions found in the classroom. Which inventions are absolutely necessary?C. Identify areas of need that could use a new invention to make the world a better place.	fts n a	Core Idea 2 process for constraints A. Defin B. Gener C. Optin Core Idea 3 technologic systems is A. Iden B. Life	 Engineering and Technology Core Idea 2: Engineering design is a creative and iterative process for identifying and solving problems in the face of constraints. A. Defining and researching technological problems B. Generating and evaluating solutions C. Optimizing and making tradeoffs Core Idea 3: People are surrounded and supported by technological systems. Effectively using and improving the systems is essential for long-term survival and prosperity A. Identifying and modeling technological systems 				
Religious Resources:	Prayer:	rayer:				edback		
RC: Life in Christ – Sin/Choices #10 Stewardship	Thank God for giving scientists and inventors special gifts that can be used to help the world.	technologie 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					
CCC: 2292-2295 Use research, inventions, and experiments for the good of others.	Thank God for the gifts of persistence ar perseverance which are needed when trying to perfect a new invention.	nd	 accompany such decisions. A. Interactions of technology and society B. Interactions of technology and environment C. Analyzing issues involving technology and society. 					
CCC: Catechism of the Catholic Churc B: Bible			chism Cor gion Curric	•		um		

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Standard H Personal, Social, and Moral Aspects of Science

DIOCESAN REQUI	REMENTS	LOCAL LEVEL SCHOOL ELEMENTS				OOL ELEMENTS		
CONCEPTS, SKILLS,			Text			Qu	arter	·/ Date Taught
& CATHOLIC FAITH C			Alignment	1	2	3	4	Assessment
 Identify some State laws that are meant to protect our personal safety. What scientific evidence was used to determine the need for the State law, and how was the public made aware of the new law? Because we have technology, should we always use technology? 								
EMPHASIS & RESOURCES	ACTIVITIES		C	OMN	ION	COR	RE ST	TANDARDS
 Religious Emphasis: Students are taught that creation reflects the infinite beauty of the Creator. Further, scientific study ought to inspire the respect, awe and submission of man's intellect and willingness to tell the truth of Catholic Church Teaching. Students are taught that there is an objective, unchanging truth which is distinct from scientific theory. Religious Resources: RC: Life in Christ – Conscience/Dignity #1 - #2 We have dignity and self-respect RC: Life in Christ – Love #2 We must care for our body Read and discuss St. Camillus del Lellis (Patron of A.I.D.S) Read and discuss Venerable Matt Talbott (Patron of Alcohol and Addictions) St. Paul, Oscar Romero - Morality 	 A. Research laws regarding safety in automobiles, motorcycle safety, and school bus safety. What safety products have been invented to help us comply with those laws? B. What effect do laws relating to drugs and alcohol abuse have on society? Prayer: Thank God for advances in medical technology that are available we need them. Thank God for personal hygiene products that were invented to make us look good, smell good, and feel good. 	COMMON CORE STANDARDS Physical Science Core Idea 3: Transfers of energy within and between sys never change the total amount of energy, but energy tends become more dispersed; energy availability regulates what occur in any process. A. Descriptions of Energy B. Energy for life and practical use. The special role of food and fuel. C. Relationship between energy and forces Engineering and Technology Core Idea 3: People are surrounded and supported by technological systems. Effectively using and improving the systems is essential for long-term survival and prosperity A. Identifying and modeling technological systems B. Life cycles and maintenance of tech				thin and between systems ergy, but energy tends to lability regulates what can use. The special role of and forces and supported by using and improving these rvival and prosperity. mological systems of technological systems ld everyone makes c are affected by uently, it is essential for and responsibilities that		
CCC: Catechism of the Catholic Churc B: Bible			echism Coi igion Curric			Im		