

EIGHTH GRADE CURRICULUM

RELIGION

Textbook: Church History and Church and Sacraments, Faith First ©2007

Students will demonstrate:

The origin, foundation, and mission of the Church:

- Understand that Jesus Christ inaugurated the Church.
- Discover the role of the Resurrection in the mission of Christ and the role of the Great Commission in the mission of the Church.
- Understand that Jesus commissioned his disciples to keep alive his mission in the world.
- Discover how to follow the way of the Christ.

The early Church both struggled to find her identity and proclaimed the Gospel far and wide:

- Understand the challenges of the early Church to carry Jesus' message to every corner of the Roman Empire.
- Discover how the Gospel was proclaimed in the first centuries of the Church's history.
- Discover how the practice of Christians worship developed in the early Church.
- Discover that like our ancestors in faith, we are challenged to be active participants in the life and work of the Church.

The martyrs in the early Church influenced the faith of the Church:

- Understand why the blood of the martyrs was called the seed of the Church.
- Explore the causes behind the martyrdom that occurred in the early Church.
- Identify and learn about contemporary martyrs.
- Identify and learn skills to cope with change and stress.

Recognize the importance of the role of Saint Peter and his successors, the Popes, and of all the baptized in putting the Gospel into action:

- Discover that God calls all the baptized to participate in the mission of the Church.
- Learn about Jesus' call to Saint Peter.
- Discover that the ministry given to Saint Peter is carried out by the Church today.
- Identify ways to live the Corporal Works of Mercy.

The mission of being both a herald and servant of the Gospel characterized the rise of Christendom:

- Discover the growth of the Church in the fourth century.
- Explore how the authority of the papacy grew.
- Discover how monasticism affected spiritual growth of the Church.
- Explore the concept of leadership as it applies to the Church and her members.

The light of faith was ignited during the Middle Ages and beyond:

- Understand how the Church has the guarantee of development.
- Discover the people and events that called the Church to renewal.
- Discover how the Church fulfills her commission to preach the Gospel.
- Explore how to be heralds and servants as members of the Church today.

Recognize the work of the Holy Spirit in the history of the Church:

- Learn about the Holy Spirit's presence in the ministry and mission of Jesus.

EIGHTH GRADE CURRICULUM

- Explore Jesus' promise to send the Holy Spirit.
- Discover the work of the Holy Spirit in the history of the Church.
- Understand more about the Fruits of the Holy Spirit.

The Church proclaims Jesus Christ to the ends of the earth:

- Discover the new energy and zeal in the Church during the fifteenth and sixteenth century.
- Come to know Christians who exemplified the Gospel in the New World.
- Understand the missionary efforts of the Church in modern times.
- Name and choose things to take on the Christian journey of spreading the Gospel of Jesus Christ.

The Book of Jonah prefigures about the missionary nature of the Church:

- Explore the work of the prophets and the background of the Book of Jonah.
- Discover that the Book of Jonah teaches about Salvation.
- Understand that the Church is a sign and instrument of Salvation.
- Reflect on our mission as Catholics.

The Catholic Church in the United States has been a sign and instrument of God's saving presence:

- Discover how the early seeds of faith were sown in the Americas.
- Understand the growth of the Catholic Church in the United States.
- Explore the work of the Church in the United States during the Vatican II era.
- Reflect on how you are the only Gospel some people will ever read.

Recognize the importance of the Second Vatican Council:

- Explore Blessed Pope John XXIII's call for an ecumenical council.
- Examine the work and documents of the Second Vatican Council.
- Discover the Catholic Church's efforts to work for the unity of all Christians.
- Explore how you are part of the Church's continuing history.

Learn why Christ established the Church and how the Church continues the mission of Jesus Christ:

- Discover that the Church is the new People of God and the Communion of the Saints.
- Identify the responsibilities and ministries of the faithful.
- Explore the role of the pope and other bishops of the Church.
- Understand that Jesus calls each of us to follow him in a special way.

Understand that images, such as the Body of Christ, help us understand the mystery of the Church:

- Realize that the Church uses images to express her understanding of the mysteries of the faith.
- Explore how the Marks of the Church help us understand the mystery of the Church.
- Explain the work of the Magisterium, or teaching authority of the Church.
- Learn skills that help us be responsible and valued members of a group.

Discover that Saint Paul the Apostle made many missionary journeys to spread the Gospel throughout the Roman Empire:

- Understand Saint Paul's missionary journey.
- Describe how missionary work is important in the life and mission of the Church.
- Appreciate how zeal and optimism help the Church live the Gospel.

EIGHTH GRADE CURRICULUM

Become more familiar with the prayer life of the Church:

- Describe the Church as a praying community.
- Experience the expressions and sources of Christian prayer.
- Pray a prayer of meditation.
- Identify obstacles to prayer.
- Describe how Jesus teaches us to pray and relate it to the pray of the Church.
- Explore the role of devotions, sacred images, and forms of spirituality in the life of the Church.

Discover how the Church, through the liturgy and sacraments, responds to the presence of God in our daily lives:

- Understand that the Holy Trinity is present when the Church celebrates the liturgy.
- Name and describe the seven sacraments of the Church.
- Appreciate how the Church reaches out to Catholics who are not actively participating in the life of the Church.
- Participate in Eucharist at school masses and appreciate the graces we receive when we share in the Eucharist.
- Demonstrate ways to live a life of forgiving and healing
- List and identify opportunities to serve our family by living Corporal and Spiritual Works of Mercy.

PHYSICAL SCIENCE

Introduction to Matter

- The Student will be able to:
 - Explain that science involves asking questions.
 - Describe the relationship of matter and energy to physical science.
 - Identify and describe Chemistry and Physics as the two branches of physical science.
 - Identify, describe, and analyze the types of and ways that scientific methods may be utilized.
 - Communicate data to other classmates as scientists would; using graphs, tables, formulas, and written explanations.
 - Measure and convert data using the International System of Units (SI units).
 - Understand that all matter has mass and takes up space.
 - Compare mass and weight.
 - Explain the relationship between mass and inertia.
 - Compare physical and chemical properties and changes.
 - Understand that certain substances have certain properties and substances can be identified by their properties.
 - Differentiate the three states of matter.
 - Identify elements as a pure substance that can be classified by their properties such as density and reactivity.
 - Describe and explain how elements can combine to make up compounds with its own physical properties.

EIGHTH GRADE CURRICULUM

- Compare compounds and mixtures.
- Contrast solutions, solvents, solutes, colloids, and suspensions.

The Atom

- Students will be able to:
 - Understand that atoms are the smallest particle of an element.
 - Understand that atoms are composed of small particles that determine the properties of the atom.
 - Compare the different models of the atom that led to the modern atomic theory.
 - Name the parts of the atom, including protons, neutrons, and electrons.
 - Describe the relationship between the numbers of protons and neutrons, and atomic number.
 - Understand how matter changes phases and how energy influences the change.
 - State how isotopes differ.
 - Describe the four forces acting in an atom.
 - Understand that elements are organized on the periodic table according to their properties.
 - Explain what information can be found on the periodic table.
 - Draw a model of an atom using the periodic table.
 - Categorize elements using the predictive pattern of the periodic law.
 - Differentiate between a period and a group.
 - Compare metals, nonmetals, and metalloids based on their properties and on their location in the periodic table.

Interactions of Matter

- Students will be able to:
 - Describe chemical bonding.
 - Understand that atoms combine by forming ionic, covalent, and metallic bonds.
 - Understand that substances undergo chemical reactions, which form new substances whose properties differ from the properties of the original substances.
 - Identify chemical reactions.
 - Explain that chemical bonds are broken and rearranged during chemical reactions.
 - Interpret and write chemical formulas and equations.
 - Classify chemical reactions.
 - Compare endothermic and exothermic reactions.
 - Describe factors that affect the rate of a chemical reaction.
 - Understand that chemical compounds are classified into groups based on their bonds and their properties.
 - Identify and describe acids, bases, and salts.
 - Use the pH scale to identify acids and bases.

EIGHTH GRADE CURRICULUM

Magnetism and Electricity

- Students will be able to:
 - Describe how charged objects interact.
 - Describe three ways in which an object can become charged.
 - Compare conductors and insulators.
 - Give examples of static electricity and static discharge.
 - Describe an electric current.
 - Describe voltage.
 - Use Ohm's law to calculate voltage, current, and resistance.
 - Name the parts of a circuit.
 - Compare a series with a parallel circuit.
 - Construct different circuits in lab.
 - Describe the properties of magnets.
 - Explain why some materials are magnetic and some are not.
 - Describe the four kinds of magnets.
 - Give examples of the effect of Earth's magnetic field.
 - Use a compass and understand why it works.
 - Describe the relationship between an electric current and a magnetic field.
 - Describe how electromagnetism generates electricity.

Waves, Sound, and Light

- Students will be able to:
 - Describe how waves transfer energy.
 - Explain the difference between a transverse and longitudinal wave.
 - Make waves in the lab using slinkys.
 - Identify and describe wave properties.
 - Explain how frequency, wavelength, and speed are related.
 - Describe reflection, refraction, diffraction, and interference.
 - Describe how vibrations cause sound.
 - Explain how sound is transmitted through a medium.
 - Compare the speed of sound through different mediums
 - Understand amplitude and frequency.
 - Describe light.
 - Compare the different waves on the electromagnetic spectrum.
 - Explain how light allows us to see.
 - Work with color.

Motion and Forces:

- Students will be able to:
 - Describe the motion of object based on its position in relation to a reference point.
 - Determine average speed based on total distance and total time.

EIGHTH GRADE CURRICULUM

- Explain the differences between velocity, speed, and acceleration.
- Represent changes in motion on a graph.
- Describe forces as a push or pull that act on objects.
- Understand that unbalanced forces will cause a change in an object's speed or direction.
- Identify causes, uses, and examples of friction.
- Describe gravity and its effect on matter.
- Explain the law of universal gravitation.
- Explain the effect of gravity and air resistance on falling objects.
- Restate Newton's three Laws of Motion.
- Calculate the momentum of moving objects.
- Relate the Law of Conservation of Momentum to the Newton's Third Law of Motion.
- Understand that forces in fluids are related to pressure and density and can affect the motion of objects in a fluid.
- Explain the relationship between fluid pressure and buoyant force.
- Explore Bernoulli's Principle and how it affects flight.

Work, Machines, and Energy

- Students will be able to:
 - Understand that work is the transfer of energy to an object.
 - Understand that power is the rate at which work is done.
 - Calculate power and work.
 - Identify machines as devices that make work easier.
 - Explain why machines are not 100% efficient.
 - Calculate mechanical advantage and mechanical efficiency.
 - Compare simple and compound machines.
 - Describe the most common simple machines.
 - Understand that energy can be changed from one form into another form, but energy cannot be created or destroyed.
 - Describe the different forms of energy.
 - Explain the relationship between energy and work.
 - Compare kinetic and potential energy.
 - Compare the energy associated with heat, light, electricity, mechanical motion, sound, nuclear, and chemical reactions.
 - Explain and give examples of the Law of Conservation of Energy.
 - Reason why perpetual motion is impossible.
 - Name and describe renewable and nonrenewable energy resources.
 - Explain how heat energy moves from an object at a higher temperature to an object at a lower temperature.
 - Use temperature conversion equations to compare temperatures on different temperature scales.
 - Compare conduction, convection, and radiation.
 - Identify models of heating and cooling systems.

EIGHTH GRADE CURRICULUM

MATHEMATICS

The Number System

- Know that numbers that are not rational are called irrational
- Understand that every number has a decimal expansion; for irrational numbers show that they are non-repeating nor terminating
- Use rational approximations of irrational numbers to compare the size of irrational numbers, locate them approximately on a number line diagram, and estimate the value of expressions
- Understand the meaning of a square root of a number and its connection to the square whose area is the number

Algebra

- Know and apply the properties of integer exponents to generate equivalent numerical expressions
- Evaluate square roots of small perfect squares
- Perform operations with numbers expressed in scientific notation, including problems where both decimal and scientific notation are used
- Graph proportional relationships, interpreting the unit rate as the slope of the graph
- Solve linear equations in one variable
- Solve linear equations with rational number coefficients, including equations whose solutions require expanding expressions using the distributive property and combining like terms
- Analyze and solve pairs of simultaneous linear equations
- Understand that solutions to a system of two linear equations in two variables correspond to points of intersection of their graphs, because points of intersection satisfy both equations simultaneously
- Solve simultaneous linear equations in two variables by graphing, by substitution, and by linear combination; estimate solutions using graphs; include examples with no solutions and infinitely many solutions
- Solve real-world and mathematical problems leading to two linear equations in two variables
- Solve linear inequalities in one and two variables, and graph the solution sets
- Set up and solve applied problems involving simultaneous linear equations and linear inequalities
- Understand that a function is a rule that assigns to each input exactly one output. The graph of a function is the set of ordered pairs consisting of an input and the corresponding output
- Compare properties of two functions each represented in a different way (algebraically, graphically, numerically in tables)
- Interpret the equation $y = mx + b$ as defining a linear function, whose graph is a straight line; give examples of functions that are not linear
- Interpret the rate of change and initial value of a linear function in terms of its graph or a table of values
- Recognize and perform operations with polynomials

EIGHTH GRADE CURRICULUM

- Factor simple quadratic expressions with integer coefficients
- Understand and represent quadratic functions
- Graph factorable quadratic functions

Geometry

- Understand that a two-dimensional figure is congruent to another if the second can be obtained from the first by a sequence of rotations, reflections, and translations
- Describe the effect of dilations, translations, rotations, and reflections on two-dimensional figures using coordinates
- Use the Pythagorean Theorem to solve applied problems

Data and Probability

- Construct and interpret scatter plots to investigate patterns of association between two quantities
- Use the equation of a linear model to solve problems in the context of measurement data, interpreting the slope and intercept
- Determine which measure of central tendency (mean, median, mode) best represents a data set

LANGUAGE ARTS

Writing

Text Types and Purposes

Students will:

- Write a research report for an authentic audience that includes appropriate organizational patterns (problem statement and solution, position statement and supporting evidence, compare and contrast) descriptive language.
 - Gather relevant information from multiple print and digital sources, assess the credibility and accuracy of each source, and integrate the information while avoiding plagiarism.
 - Use in-text citations (MLA) to justify evidence and avoid plagiarism.
 - Use technology, including online tools, to produce and organize writing and sources while also interacting and collaborating with others.
- Write a personal opinion essay containing autobiographical incidents (Optimist Oratorical Speech) for an authentic audience that includes organizational patterns that support key ideas.
 - Build foundation for the audience by establishing a context and point of view and introducing a narrator and/or characters; organize an event sequence that unfolds naturally and logically.
 - Use narrative techniques, such as dialogue, pacing, description, and reflection to develop experiences, events and/or characters.
 - Use a variety of transitional words, phrases, and clauses to convey sequence and signal shifts from one time frame or setting to another, and show the relationships between experiences and events.
 - Use precise words and phrases, relevant descriptive details, and sensory language to

EIGHTH GRADE CURRICULUM

- capture the action and convey experiences and events.
- Provide a conclusion that follows from and reflects on the narrated experiences or events.

Production and Distribution of Writing

Students will:

- Produce clear and coherent writing in which the development, organization, and style are appropriate to task, purpose, and audience.
- With guidance and support from peers and adults, as well as independently, develop and strengthen writing as needed by planning, revising, editing, rewriting, or trying a new approach, focusing on how well purpose and audience have been addressed.
- Use technology, including the Internet, to research, produce, and publish writing.
- Gather relevant information from multiple print and digital sources, assess the credibility and accuracy of each source, and integrate the information while avoiding plagiarism.
- Identify examples that delineate and evaluate the argument and specific claims in a text, assessing whether the reasoning is sound and the evidence is relevant and sufficient; recognize when irrelevant evidence is introduced.
- Adapt speech to a variety of contexts and communicative tasks, demonstrating command of formal English.

Language, Grammar, and Usage

Students will:

- Apply knowledge of language to understand how language functions in different contexts, to make effective choices for meaning or style, and to comprehend more fully when reading or listening.
- Diagram sentences including: subject, predicate, nouns, verbs, objects, prepositional phrases, modifiers, verbals, compound, and complex sentences.
- Identify and use a variety of style conventions and grammatical structures in their writing including:
 - Nouns
 - Singular and Plural Nouns
 - Nouns as Subjects and Subject Complements
 - Nouns as Objects and Object Complements
 - Possessive Nouns
 - Appositives
 - Adjectives
 - Descriptive Adjectives, Position of Adjectives
 - Comparative and Superlative Adjectives
 - Demonstrative, Interrogative, and Indefinite Adjectives
 - Use of *Few* and *Little* to Describe Nouns
 - Adjective Phrases and Clauses

EIGHTH GRADE CURRICULUM

- Pronouns
 - Person, Number, and Gender of Pronouns
 - Subject Pronouns
 - Object Pronouns
 - Pronouns after *Than* or *As*
 - Possessive Pronouns and Adjectives
 - Intensive and Reflexive Pronouns
 - Agreement of Pronouns and Antecedents
 - Interrogative Pronouns and Demonstrative Pronouns
 - Relative Pronouns
 - Indefinite Pronouns
 - Agreement with Indefinite Pronouns

- Verbs
 - Principal Parts of Verbs
 - Transitive and Intransitive Verbs
 - Linking Verbs
 - Active and Passive Voice
 - Simple, Progressive, and Perfect Tenses
 - Indicative and Imperative Moods
 - Subjunctive Mood
 - Modal Auxiliaries
 - Subject-verb Agreement

- Verbals
 - Participles
 - Placements of Participles
 - Gerunds as Subjects and Complements
 - Gerunds as Objects and Appositives
 - Possessives with Gerunds
 - Infinitives as Subjects and Complements
 - Infinitives as Objects
 - Infinitives as Appositives
 - Infinitives as Adjectives
 - Infinitives as Adverbs
 - Hidden and Split Infinitives

- Adverbs
 - Interrogative Adverbs and Adverbial Nouns
 - Comparative and Superlative Adverbs
 - Adverb Phrases and Clauses

- Prepositions
 - Single and Multiword Prepositions
 - Words Used as Adverbs and Prepositions
 - Prepositional Phrases as Adjectives
 - Prepositional Phrases as Adverbs
 - Prepositional Phrases as Nouns

- Sentences

EIGHTH GRADE CURRICULUM

- Kinds of Sentences
- Adjective and Adverb Phrases
- Adjective Clauses
- Restrictive and Nonrestrictive Clauses
- Adverb Clauses
- Noun Clauses as Subjects
- Noun Clauses as Subject Complements
- Noun Clauses as Appositives
- Noun Clauses as Direct Objects
- Noun Clauses as Objects of Prepositions
- Simple, Compound, and Complex Sentences

- Conjunctions and Interjections
 - Coordinating Conjunctions
 - Correlative Conjunctions
 - Conjunctive Adverbs
 - Subordinate Conjunctions
 - Interjections

- Punctuation and Capitalization
 - Periods and Commas
 - Exclamation Points, Question Marks, Semicolons, and Colons
 - Quotation Marks and Italics
 - Apostrophes, Hyphens, and Dashes
 - Capitalization

Speaking and Listening

Students will:

- Develop and use speaking skills to engage and persuade an audience.
- Appropriately demonstrate vocal pace and inflexion, facial expressions, gestures, physical movement, and eye contact during presentation of student-written pieces.
- Present claims and findings, emphasizing salient points in a focused, coherent manner with relevant evidence, sound valid reasoning, and well-chosen details.
- Adapt speech to a variety of contexts and communicative tasks, demonstrating command of formal English.
- Engage effectively in a range of collaborative discussions (one-on-one, in groups, and teacher-led) with diverse partners on grade 8 topics, texts, and issues, building on others' ideas and expressing their own clearly.

Vocabulary and Spelling

Students will:

- Spell frequently misspelled words correctly in the context of the student's own writing.
- Determine or clarify the meaning of unknown and multiple-meaning words and phrases based on grade eight reading and content, choosing flexibly from a range of strategies.
- Use context clues to determine the meaning of unknown words.

EIGHTH GRADE CURRICULUM

- Use Greek and Latin affixes as clues to determine the meaning of unknown words.
- Consult both print and digital reference materials to find the spelling and pronunciation of word to determine or clarify its precise meaning or its part of speech. [SEP]
- Acquire and use accurately a range of general academic and domain-specific words and phrases sufficient for reading, writing, speaking, and listening at or above the current grade level; demonstrate independence in gathering vocabulary knowledge when considering a word or phrase important to comprehension or expression.

Reading

Literature

Students will:

- Study classic literature including a focus on Fantasy, Science Fiction, Historical Fiction, and Memoir through the examination of novels, short stories, plays and films.
- Read closely to determine what the text says explicitly and to make logical inferences from it.
- Cite specific textual evidence when writing or speaking to support conclusions drawn from the text.
- Cite the textual evidence that most strongly supports an analysis of what the text says explicitly as well as inferences drawn from the text.
- Determine a theme or central idea of a text and analyze its development over the course of the text, including its relationship to the characters, setting, and plot; provide an objective summary of the text.
- Analyze how particular lines of dialogue or incidents in a story or drama propel the action, reveal aspects of a character, or provoke a decision.
- Analyze how and why individuals, events, and ideas develop and interact over the course of a text.
- Interpret words and phrases as they are used in a text, including determining technical, connotative, and figurative meanings, and analyze how specific word choices shape meaning or tone.
- Assess how point of view or purpose shapes the content and style of a text.
- Determine the meaning of words and phrases as they are used in a text, including figurative and connotative meanings.
- Analyze the impact of specific word choices on meaning and tone, including analogies or allusions to other texts.
- Analyze how differences in the points of view of the characters and the audience or reader (e.g., created through the use of dramatic irony) create such effects as suspense or humor.
- Analyze the extent to which a film or live production of a story or drama stays faithful to or departs from the text or script, evaluating the choices made by the director or actors.

Informational Text

Students will:

- Read closely to determine what the text says explicitly and to make logical inference from it; cite specific textual evidence when writing or speaking to support conclusion drawn from the text.
- Determine central ideas or themes of a text and analyze their development; summarize the key supporting details and ideas.

EIGHTH GRADE CURRICULUM

- Analyze how a text makes connections and distinctions between individuals, ideas, or events (e.g., through comparisons, analogies, or categories).
- Analyze how and why individuals, events, and ideas develop and interact over the course of a text.
- Interpret words and phrases as they are used in a text, including determining technical, connotative, and figurative meanings, and analyze how specific word choices shape meaning or tone.
- Determine the meaning of words and phrases as they are used in a text, including figurative, connotative, and technical meanings.
- Analyze the impact of specific word choices on meaning and tone, including analogies or allusions to other texts.
- Analyze in detail the structure of a specific paragraph in a text, including the role of particular sentences in developing and refining a key concept.
- Determine an author's point of view or purpose in a text and analyze how the author acknowledges and responds to conflicting evidence or viewpoints.
- Evaluate the argument and specific claims in a text, assessing whether the reasoning is sound and the evidence is relevant and sufficient; recognize when irrelevant evidence is introduced.
- Plan, monitor, regulate, and evaluate skills, strategies, and processes for independent reading comprehension by applying appropriate metacognitive skills (ex.SQ3R, pattern guides, process of reading guides).
- Read and comprehend literary nonfiction and informational texts, including history/social studies, science, and technical texts independently and proficiently at the eighth grade complexity level.

SOCIAL STUDIES

AMERICAN HISTORY: MODERN ERA

Students will demonstrate an understanding of:

The Birth of Modern America:

- Explain how slavery divides a nation
- Analyze the Civil War and Reconstruction 1861 - 1865
- Explain how industrialization promoted leisure time and new forms of fun
- Cite the economic problems of the late 1800's
- Analyze the Populist Party and its' goals
- Analyze the rise of segregation and its' legalization

American Imperialism and Progressivism:

- Cite the methods of American expansion in the Pacific
- Analyze the Spanish American War of 1898
- Explain the Open Door policy and its' effects on the US
- Describe the rise of the Progressive movement
- Analyze the American era during the Roosevelt presidency
- Explain the American perception of the Taft Administration

EIGHTH GRADE CURRICULUM

- Describe Wilson's economic and social reforms
- Explain the causes of WWI and why the US entered the war
- Explain how the economy was controlled to support the war