

Eighth Grade

Religion

Students will :

- Demonstrate knowledge of the Commandments, Beatitudes, virtues, and Catholic moral teachings
- Apply knowledge of Catholic teachings to moral decision making
- Classify the structure and images of the Catholic Church
- Trace the history of the Roman Catholic Church from apostolic times through the twentieth century
- Choose to commit themselves to membership in the Catholic Church through the sacrament of Confirmation

Language Arts

Goals :

- Learn to communicate through writing and speaking.
- Read using a variety of critical thinking skills.
- Learn the process of writing an autobiography.
- Learn the process of staging a play.
- Read grade level instructional text
- Develop and apply grade level instructional vocabulary

Students will :

- Read novels independently for class discussion
- Compare and contrast drama, non-fiction, and fiction
- Create projects based on novels
- Identify participles, gerunds, infinitives, and clauses
- Write two persuasive essays
- Demonstrate the ability to plan a long-range project (autobiography)
- Follow a schedule to write sequential events in an autobiography
- Interview an influential person in my life and write a report
- Write a table of contents
- Assemble multiple parts of a report in a specified order

Math

Students will :

- Solve three or more step addition, subtraction, multiplication, and divisions equations
- Analyze polynomials and standard form
- Compute with monomials and polynomials
- Solve equations with variables on both sides
- Compare and contrast solutions of a linear inequality
- Graph inequalities with two or more variables
- Identify ratios in right triangles
- Analyze trigonometric ratios: sine, cosine, and tangent
- Use algebra to solve geometric problems
- Measure the slope of a line
- Identify intercepts of a line
- Solve and graph linear equations
- Compare and contrast similar figures in perimeter
- Measure the area of irregular figures
- Compare and contrast theoretical and experimental probabilities
- Identify geometric probability

Physical Science

Students will :

- *Laboratory*
 - Identify the metric units and convert one metric unit to another using dimensional analysis
 - Operate Bunsen burners
- *Matter*
 - Classify matter as elements, compounds, solutions, or mixtures
 - Describe the structure of the atom
 - Identify the chemical symbols for elements on the periodic table

- Describe the development of the modern periodic table
- Compare the properties of different families of elements of the periodic table
- *Chemistry of Matter*
 - Describe chemical bonding in terms of an atom's electron arrangement
 - Define energy level and list the maximum number of electrons in the first three levels
 - Describe the characteristics of chemical reactions
- *Motion and Forces*
 - Define and calculate formulas involving speed, velocity, and acceleration, and momentum
 - Define force, and state and apply Newton's laws of motion and his law of universal gravitation
 - Describe forces in fluid, and state and apply Archimedes' principle and Bernoulli's principle
- *Work, Power, and Simple Machines*
 - Explain work and power
 - Describe simple machines
- *Energy*
 - Define energy, identify its forms and state the law of conservation of energy
- *Sound and Light*
 - Describe the interactions of waves
 - Describe the properties of sound and electromagnetic waves
 - Explain reflection and refraction of light
- *Life Science – Ecology*
 - Relate ecology to the relationships of living things with their environment
 - Research interactions of populations of living things within an environment
 - Describe a symbiotic relationship and how organisms adapt to their environment

Social Studies

Students will :

- Analyze characteristics of each English colony in America
- Describe the influence of the Great Awakening on colonial life and the American Revolution

- Describe the influence of the Enlightenment on colonial life and the American Revolution
- Identify leaders of American Revolution and founding fathers of the United States
- Analyze the Articles of Confederation and how it influenced the Constitution
- Identify different forms of taxes, such as tariffs, sales taxes and income taxes, and their purposes
- Explain different Amendments of the U.S. Constitution
- Describe the qualifications and requirements of elected officials in the U.S.
- Explain how the electoral college selects a president
- Analyze the checks and balances of each branch of government
- Describe the duties and jobs of each branch of government
- Explain how laws are made in the government
- Identify and analyze the successes and failures of each U.S. President
- Analyze the American financial system of capitalism
- Analyze the significance of the Louisiana Purchase and the goal of Manifest Destiny
- Compare and contrast life on a Southern plantation and a Northern city
- Describe the slave trade and conditions of slavery
- Identify the significance of Supreme Court decisions
- Identify major reform movements in the U.S.
- Analyze the reasons for the Mexican War and identify the results of it
- Compare and contrast leaders of political parties before the Civil War
- Analyze the life of Lincoln before his presidency
- Describe how the assassination of Lincoln contributed to the failure of the Reconstruction
- Identify and describe the discrimination of African Americans in the South after the Civil War
- Analyze the importance of American inventors and their contribution to the rise of the U.S. as a world power
- Identify the major leaders of the Progressive movement in the U.S. in the late nineteenth century
- Analyze the rise of American imperialism in Asia and South America
- Analyze the causes of WWI
- Explain how the U.S. involvement in WWI led to isolationism

- Describe the impact of WWI and the Great Depression on the U.S. and its effect on WWII
- Identify the characteristics of American life during the Roaring Twenties
- Analyze FDR's New Deal and how it affects the U.S. today
- Describe how the U.S. changed during WWII
- Analyze the impact of the atomic bomb on the world today
- Analyze the impact of Watergate on American politics and how the public views politicians
- Identify how modern technology influences the U.S. economy
- Analyze the U.S. relationship with other countries
- Identify and describe modern events that affect the U.S.

Library

Students will :

- Develop, monitor, and revise plans of action to meet research deadlines and accomplish goals
- Identify tasks that require a coordinated effort and work with others to complete those tasks
- Develop questions and ideas to initiate and refine research
- Conduct research to answer questions and evaluate information and ideas
- Organize data, information, and ideas into useful forms including charts, graphs, and outlines for analysis or presentation

Physical Education

Students will :

- Demonstrate responsible personal and social behavior in physical activity
- Participate in lifetime sports activities :
 - fitness testing, rope jumping, running, walking, volleyball, softball, basketball, soccer, bowling
- Demonstrate proficiency through combining basic skills in more advanced team sports
- Practice ball handling skills used in various sports/activities
- Participate in lifetime sports/activities using appropriate techniques, strategies, and safety measures

Music

Students will :

- Perform basic rhythms

- Label syncopation
- Identify various meters and meter changes
- Define and use compound meter
- Identify polyrhythms
- Define legato and staccato articulation
- Identify various textures
- Improvise melodic embellishments and variations on given melodies in major keys
- Sight read accurately and expressively, simple music

Art

Students will :

- Demonstrate use of realism and abstract
- Use texture creatively and effectively
- Show light, shadow, perspective

Computer

Students will :

- Use keyboard with a speed of at least 25 words per minute
- Make a presentation using Microsoft Power Point
- Utilize HTML to create WebPages, using Text editors, tags, graphics, links and any other operators necessary to create a WebPage