Curriculum- Grade 5

Religion

Goal:
- To lead students to understand and fully live the Christian life.

Objectives:
- To encourage each student to grow in faith in God’s goodness
- To share with others the essence of the Bible’s message and the teachings of Revelation
- To lead the children to read and pray the Scriptures
- To prepare for Christian leadership and involvement in their parish community
- To share in the Divine Life through study and participation in our Catholic liturgy, the seven Sacraments, and many of our faith traditions

Focus:

Worship
- The Liturgy
- Liturgical Year; Ordinary Time, Advent, Christmas, Lent, Easter
- The Sacraments of Initiation, Healing, Vocation, and Prayer

Beliefs
- The Word of God
- Holy Trinity
- God the Father
- Death, Resurrection, and Ascension of Jesus
- Holy Spirit

Liturgyical Year
- All Saints Day

Advent
- Weekly prayer service and lighting of the wreath
- Jesse Tree
- Emphasis on preparation for Christ’s coming

Lent
- The life and ministry of Christ
- Weekly Stations of the Cross
- Art projects of the Lenten symbols and Stations of the Cross
- Self-sacrifice activity

Mary
- Rosary
- Feast Days
- Prayers to Mary, Our Mother

Commandments
- 5th through 10th
- Emphasizing the imitation of Jesus self-sacrificing love

Enrichment
- Mass

Christian Living
- Scripture Study
- Making Christian decisions
- Living our Covenant with God

Assessment of Goals and Objectives:
- Announced tests and quizzes on readings
- Reports and research projects as determined by the teacher
- Class discussions

Resources:
- Bible
- Faith First
- Saints and Feast Days- Loyola Press
Language Arts

Goals:

To enable students to develop a thorough knowledge of, and competency in, both written and oral English. They will learn to understand and appreciate the deeper purposes of literature and be encouraged to become lifelong readers.

Objectives:

- To use writing skills correctly
- To employ correct spoken language
- To strive for accurate spelling
- To employ correct grammar and mechanics in writing
- To enhance understanding and appreciation for literary works

Focus

Writing Strategies
- Prewriting
- First draft
- Conferences
- Revision
- Publication

Grammar
- Parts of speech
- Phrases and clauses
- Sentence structure

Mechanics
- Punctuation
- Capitals

Spelling
- Rules
- Analysis
- Study
- Usage

Penmanship
- Cursive writing exercises to further legibility

Spoken Language
- Recitation of poems and stories
- Oral reading

Listening Skills
- Interpretation and memorization of materials presented
- Following oral directions

Reading/Literature
- Emphasizing higher level skills of comprehension
- Vocabulary enhancement
- Expansion of knowledge across the curriculum
- Enjoyment of reading
- Understanding cause and effect
- Understanding the main themes of Literature

Assessment of Goals and Objectives:

- Classroom discussion
- Frequent short quizzes
- Unit tests
- Writing Samples
- Reading skill sheets
- Reports, oral and written
- Chapter Tests

Resources:
Mathematics

**Goals**

To develop the mathematical skills and understanding, which will empower students to solve problems independently, engage in effective reasoning and to appreciate the connection between mathematics and everyday life.

**Objectives**

To continue to develop understanding of all areas of mathematics taught up to grade five
To be familiar with strategies for problem solving with the principles of logical mathematical progression
To develop a sense of correlation between mathematical concepts and real life experiences

**Focus**

- **Place Value, Addition, and Subtraction**
  - Place value to billions
  - Expanded form
  - Decimals
  - Compare, order, round numbers
  - Add and subtract numbers

- **Multiplication**
  - Multiplying three digits
  - Zeros in multiplication
  - Multiplying money

- **Division**
  - Large quotients
  - Zeros in the quotient
  - Short division
  - Divisibility
  - Dividing money
  - Order of operations

- **Number Theory and Fractions**
  - Prime and composite numbers
  - Greatest common factor
  - Fractions in lowest and higher terms
  - Least common multiple
  - Mixed numbers and improper fractions
  - Compare and order fractions

- **Fractions: Addition and Subtraction**
  - Adding fractions with unlike denominators
  - Adding three fractions
  - Adding mixed numbers
  - Subtracting fractions with unlike denominators
  - Subtracting mixed numbers with renaming

- **Fractions: Multiplication and Division**
  - Multiplying fractions using cancellation
  - Multiplying mixed numbers
  - Reciprocals
  - Dividing fractions
  - Dividing mixed numbers

- **Probability and Statistics**
  - Probability
Tree diagrams
Independent and dependent events
Finding averages
Working with different types of graphs
Geometry
Measuring and drawing angles
Identifying angles
Polygons
Congruent figures
Triangles
Quadrilaterals
Perimeter of polygons
Circles
Symmetry
Transformations
Measurement Topics
Customary units of length, capacity, and weight
Temperature
Units of time
Time zones
Decimals: Addition and Subtraction
Decimals and place value
Adding and subtracting decimals
Decimals: Multiplication and Division
Multiplying 10, 100, 1000
Multiplying decimals
Zeros in the product
Dividing by 10, 100, 1000
Dividing decimals
Zeros in division
Metric Measurement, Area, and Volume
Metric measurement, length, capacity, mass
Area of rectangle, parallelograms, and triangles
Space figures
Volume
Ratio, Proportion, and Percent
Ratios as fractions
Proportions
Scale and maps
Relating fractions to percents and decimals
Finding the percent of a number
Moving On: Algebra
Expressions: addition, subtraction, multiplication, and division
Function tables
Addition and multiplication equations
Coordinate geometry
Introduction to integers
Compare and order integers

Assessment
Announced tests and quizzes
Students will be assessed informally on a regular basis so as to better tailor the classroom instruction to individual needs
Homework will be assigned on a daily basis and assessed by board work or orally
Projects selected by instructor

Resources
Progress in Mathematics, Sadlier-Oxford (textbook and workbook)
Various mathematics recourse books
Web Sites:
www.sadlier.oxford.com
www.edhelper.com

Science
Goals:
Students will develop the ability to use basic science skills and a command of the skills as an asset in later studies and other subjects. Also students will use their hands and their minds to discover for themselves how and why things work the way they do.

Objectives:
Through a range of experiences make use of all the senses in the science – learning process.

Learn to be a critical observer of events and process.

To possess the skills to think critically, conduct careful experiments and draw reasonable conclusions.

To enhance self-discovery of science principles with real-life examples from home, school or community.

To think in new ways and help connect the new things that are learned.

To develop interpersonal skills through cooperative learning this fosters academic, personal and social success.

Focus:

Sound:
- How Sounds are made
- Instruments of Sound
- How Sound Travels
- Sound Waves
- Sound and Matter
- Different Sounds
- Sound Waves reflect
- Sound Messages

Light:
- How Light is made
- Instruments of Light
- How Light Travels
- Light Waves
- Light and Matter
- Different Light
- Light Waves reflect

Senses and Body Movement:
- Sense organs
- Taste
- Hearing
- Sight
- Touch

Bones and Muscles:
- Bones
- How Bones join
- Muscles
- Kinds of Muscles

Cells and Simple Organisms:
- Classifying living things
- Cells are building blocks of life
- The simplest Organisms
- Algae and Fungi
- Adaptations of Living

Plants:
- Classifying Plants
- Roots, Stems, Leaves
- Groups of Plants
- Adaptations of Living

Animals without Backbones:
- Simple Animals
- Animals with shells and spines
- Arthropods
- Adaptations of Living

Animals with Backbones:
- Fish & Amphibians
- Reptiles and birds
- Mammals
- Adaptations of Living

Physical Science

Electricity and Magnetism:
- Static Electricity
- Current Electricity
- Two kinds of circuits

Magnetism:
- Magnets
- Special Kind of Magnet
Moving Magnets

**Chemical Science**
- Properties of Objects
- States of Matter

**Earth Science**
- Rock and Rock Properties
- Minerals
- Soil
- Weather
- Water Cycle
- Earth History
- Earthquakes
- Volcanoes
- Erosion

**The Ocean:**
- Ocean Bottom
- Salts and Sediments
- Changes in the Ocean Floor

**Ocean Movements:**
- Currents
- Waves
- Tides

**Ocean Exploration:**
- Ocean Resources
- Ocean Life
- The Ocean Preservation
- Exploring the Ocean Bottom

**Earth, Moon & Sun:**
- Day, Night, Seasons
- Moon
- Sun
- Solar System
- Stars and Beyond

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**Assessment of Goals and Objectives:**
- Assessments that use different learning skills such as recognition and recall of facts and vocabulary.
- Interpretation of information and use of higher levels of critical thinking.
- Yearly Science Fair that stresses application of the Scientific Method.

**Resources:**
- Holt Science
- Videos
- Transparencies, Charts, Models

**Web Sites:**
- [chem.ch.huji.ac.il/~eugenik/history/oersted.htm](http://chem.ch.huji.ac.il/~eugenik/history/oersted.htm)
- [www.tva.gov/power/hydroart.htm](http://www.tva.gov/power/hydroart.htm)
- [www.tva.gov/power/hydro.htm](http://www.tva.gov/power/hydro.htm)
- [en.wikipedia.org/wiki/Michael_Faraday](http://en.wikipedia.org/wiki/Michael_Faraday)
- [www.energyquest.ca.gov/scientists/faraday.html](http://www.energyquest.ca.gov/scientists/faraday.html)
- [www.moon-phase.com/](http://www.moon-phase.com/)
- [wvlighning.com/types2/visits.html](http://wvlighning.com/types2/visits.html)

**Social Studies**

**Goals:**
- Students will appreciate the history of the US integrated with geography, citizenship, economics and the humanities.

**Objectives:**
• To understand the geography of the regions of the US
• To appreciate the US cultural diversity
• To understand how we became a democratic/republican nation
• To achieve a basic understanding of the US economy
• To integrate the history of the past into our present life
• To encourage good citizenship and an appreciation of culture

Focus:

Geographic terms and map skills
• Latitude and Longitude
• Map symbols
• How to read a grid
• The different types of maps

US regions
• Review of USA Regions
• National parks
• Natural resources

Early American Cultures
• The Mound Builders
• The Anasazi, the Inuit

The Rise of Empires in the Americas
• The Maya, The Inca, the Aztecs

The Native Americans of Middle and North America
• The Eastern Woodland Indians
• The Indians of the Great Plains
• The Indian of the Southwest Desert
• The Northwest Coast Indians

Europeans come to America
• The Vikings
• The voyages of Columbus
• Spanish exploration and colonies
• French exploration and colonies

• English Exploration and colonies

The Thirteen Original colonies
• Roanoke and Jamestown
• Plymouth Plantation

• Massachusetts Bay colony
• Understanding the Puritans
• The Middle Colonies
• The Southern Colonies

Colonial Life
• Cities, towns and farms and plantations
• Occupations
• The role of women and children
• Education and religious practices

The Early Conflicts
• King Philips War
• French and Indian War
• Pontiac’s Rebellion
• Problems with Native Americans

The American Revolution
• The Causes of the Revolution
• The leaders of the Revolution
• The Declaration of Independence and the Continental Congress
• Early battles of the Revolutionary War
• George Washington and the Continental Army
• Role of Women and African Americans in the Revolution
• The Treaty of Paris and the end of the War

The Beginnings of Our Government
• The Articles of Confederation
• The Northwest Ordinance
• The Constitutional Convention
• Our Constitution and the Bill of Rights
• Famous leaders
• Beginning of political Parties
• Building Washington D.C.
Early Westward Expansion
- Early pioneers and trails
- The Louisiana Purchase
- Louis and Clark

The War of 1812
- Causes and Effects

A Growing Nation
- Indian Removal Act
- The Trail of Tears
- The Industrial Revolution
- Building of Canals and Railroads
- The anti slavery movement

Moving West and South
- Settling Texas
- Manifest Destiny
- War with Mexico
- The Oregon Trail
- The Santa Fe and California Trails
- The California gold rush
- The life of Pioneers on the trail

North and South Grow Apart
- Slavery
- Different ways of life
- The Compromise of 1850
- Bleeding Kansas
- A new political party
- Election of Abraham Lincoln

The Civil War
- The early stages of the war
- Life during the Civil War
- African Americans and Women in the war
- How the North won
- The end of slavery
- Reconstruction

Inventions and Big Business
- The rise of steel and oil industries
- Famous inventors and inventions
- Workers and unions

Resources:
- The United States- Scott Foresman
- “Weekly Reader Map Skills”
- Trade Books
- Daily Geography- McDougal, Littell and Co.
- The Maya- Kids Discover
- The Aztec- Kids Discover
- CD Roms –Scott Foresman
- The United States Practice Workbook-Scott Foresman
- Web sites:
  - www.sfocialstudies.com
  - www.wsu.edu
  - www.pbs.org
  - www.si.edu
  - www.rilin.state.ru.us
  - www.ushistory.org
  - www.nps.gov

Life in the city
The issue of child labor
The immigrant experience