

## 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

##### Liturgical 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
  - 5<sup>th</sup> through 10<sup>th</sup>
  - 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

- Saints Kit- Loyola Press
- Web Sites:
- [www.silk.net/RelEd/15022kplan.htm](http://www.silk.net/RelEd/15022kplan.htm)
- [www.silk.net/RelEd/lessonplans.htm](http://www.silk.net/RelEd/lessonplans.htm)
- [www.cloudnet.com](http://www.cloudnet.com)
- [www.topreligion.com/forum](http://www.topreligion.com/forum)
- [www.nccbuscc.org/nab/index.shtm](http://www.nccbuscc.org/nab/index.shtm)
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## 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:

- Developing an Effective Writing Program for the Elementary Grades; Gary Chadwell (John Collins Program)
- Voyages in English- Loyola Press
- Spelling and Vocabulary skills English-Level E-Loyola Press
- Everyday Spelling- Scott Foresman-Addison Wesley
- Don't Forget to Fly- Macmillan-McGraw Hill
- Handwriting-Grade 5-Zaner-Bloser
- "Weekly Reader"
- Trade Books
- Thayer Library
- Web Sites:
- [www.edhelper.com](http://www.edhelper.com)
- [www.svum.com/squizzes/english](http://www.svum.com/squizzes/english)
- [www.abcteach.com/directory/basics/grammar](http://www.abcteach.com/directory/basics/grammar)
- [www.cebm.net/critical-appraisal.asp](http://www.cebm.net/critical-appraisal.asp)

## **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](http://www.sadlier.oxford.com)  
[www.edhelper.com](http://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
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#### **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

### **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:**

- [www.panoramas.dk/fullscreen3/f29.html](http://www.panoramas.dk/fullscreen3/f29.html)
- [chem.ch.huji.ac.il/~eugeniiik/history/oersted.htm](http://chem.ch.huji.ac.il/~eugeniiik/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/)
- [www.techtrekers.com/webquests/](http://www.techtrekers.com/webquests/)
- [wvlightning.com/types2/visits.html](http://wvlightning.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

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

### **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.ssocialstudies.com](http://www.ssocialstudies.com)
- [www.wsu.edu](http://www.wsu.edu)
- [www.pbs.org](http://www.pbs.org)
- [www.si.edu](http://www.si.edu)
- [www.rilin.state.ru.us](http://www.rilin.state.ru.us)
- [www.ushistory.org](http://www.ushistory.org)
- [www.nps.gov](http://www.nps.gov)



