

# CURRICULUM STANDARDS

## GRADE

# 6



St. Charles Borromeo Catholic School uses both the Diocesan and the Florida Sunshine State's Curriculum Standards as a basis of its curriculum. The sixth grade curriculum standards are as follows:

### LANGUAGE ARTS

#### Reading and Literature - Students will

- Set reading goals and expectations
- Read selections from and differentiate between various literary genres
- Respond to texts through association, visualization, wonder, prediction and interpretation
- Check understanding through content clues, questioning, summarizing and interpretation

#### Writing -Student's will

- Plan and set writing goals
- Record and pursue interesting and important topics to write about
- Learn various writing forms including persuasive, narrative, descriptive and expository
- Respond in writing to specific, individual literary selections through analysis, criticism, initiative original works and commentary
- Write in paragraph form using and applying capitalization, spelling, and punctuation rules
- Identify and use plurals, varied vocabulary phrases and clauses
- Recognize and use a variety of techniques to create and hold reader interest
- Recognize, use and punctuate dialogue

#### Study and Research Skills - Students will

- Formulate research questions and conjectures
- Choose use and document the use of appropriate references
- Develop interview, note taking, outlining, organizational, and time management skills
- Present research summaries and reports both orally and in written form

### SOCIAL STUDIES

#### History and Geography - Focussing on the World - Students will

- Identify and use historical evidence
- Understand the importance of individuals, events, social organizations and institutions across time and place
- Discover the ways cultures originate, spread, and influence other cultures
- Understand the relationships among productivity, markets, prices, and economic growth
- Appreciate and respect differences among people by understanding humanity, its relationships, the importance and value of uniqueness and the development of ideas.
- Compare and contrast place, physical features, human features and cultural features.
- Recognize interrelationships among humans, environment, seasons, climate, land use, conservations, pollution and population density

#### Citizenship-Students will

- Read and discuss political cartoons
- Gather, evaluate and report a variety of information
- Work together in groups to accomplish group goals
- Practice peaceful conflict resolution and responsible citizenship

#### Skills and Critical Thinking - Students will

- Understand and use a variety of graphs, charts, maps, tables and time lines
- Understand the concepts of a population pyramid
- Create to-scale maps of various countries and use all map symbols, scales, keys, etc.
- Identify cause and effect, classify information found in a table, understand differences in point of view and form logical conclusions based upon reliable information.

### MATHEMATICS

#### Number and Number Theory - Students will

- Count, read, write, compare and order whole, fractional and decimal numbers
- Write powers of 10 as exponents
- Identity fractions as equivalent, proper and improper fractions

- Express fractions and mixed numbers in simplest form
- Find factor pairs, common factors, greatest common factor, reciprocals, multiples, common multiples, least common multiple, common denominators, least common denominator and prime and composite numbers as they relate to operations with fractions
- Express fractions or mixed numbers as decimals or percents
- Round numbers to any designated place including decimal places
- Recognize and apply the identity, commutative, associative and distributive properties
- Create patterns using even and odd numbers, addition, subtraction, multiplication, division and skip counting
- Recognize multiples, squared and cubed numbers, portions, percents and ratios
- Add, subtract, multiply and divide whole, fractions and decimal numbers
- Learn divisibility rules and recognize divisibility by 1,2,3,5, 9 and 10

#### **Problem Solving - Students will**

- Employ various strategies including lists, tables, drawings, and experimentation to understand and determine sums, differences, products and quotients
- Sort and classify information; generalize, predict and justify predictions
- Analyze chain problems, identify the questions, determine necessary and unnecessary information, plan solution strategies, and solve the problems
- Recognize the effect of altering conditions upon solutions
- Estimate sums and differences, products and quotients of whole numbers, fractions and decimals to evaluate reasonableness of solutions

#### **Probability and Statistics -Student's will**

- Use and interpret charts, graphs, pictographs, bar graphs and diagrams to find facts
- Record, organize, analyze and use collected data to predict outcomes
- Use ordered pairs to locate objects in one quadrant of a coordinate grid
- Find the mean, mode, median and range of a group of numbers
- Determine the probability of an event as being 0 or 1

#### **Measurement - Student's will**

- Read temperature on Celsius and Fahrenheit thermometers
- Measure and compare using height, length, weight, and capacity (volume) using non-standard, standards units of measure
- Understand the meaning and applications of standard metric units and their prefixes
- Estimate measures of length, weight, capacity, time and quantity

#### **Algebra and Geometry - Student's will**

- Write number sentences and identify missing elements in number sentences
- Use formulas and solve equations for missing variables
- Identify and write different expressions the same number
- Use exponents to express a number as a product of prime factors
- Relate plane figures to appropriate space figures
- Increase vocabulary to include geometric terms
- Find areas of square, rectangle and triangle and express them in units squared
- Classify plane figures according to sides and angles

#### **SCIENCE**

##### **Earth Science -Student's will**

- Study the earth's natural resources
- Study the ocean; water, currents, waves, tides, and energy produced
- Discover the impact of human civilization on land and on bodies of water
- Differentiate between living and non-living, renewable and non-renewable resources
- Study the internal processes of the earth
- Discover how the earth's crust as changed over time
- Identify the relationships between atoms, molecules and energy
- Learn ways meteorologists study and predict weather
- Identify major storms and their characteristics
- Study the solar system, galaxy, and space beyond our galaxy
- Learn about worldwide space exploration efforts and people's quest to understand space

##### **The Nature of Science -Student's will**

- Measure, record, interpret, chart, graphs and communicate data

- Make reasonable predictions based upon observation and experimentation
- Learn and apply principles of scientific method by participating in a school science fair under International Science and Engineer Fair guidelines or,
- Research a topic of general scientific interest and write an original report of scientific findings

#### **RELIGION**

##### **Belief - Students will grow in awareness and understanding of**

- God's gift of faith
- God's plan of salvation

##### **Worship and Prayer - Students will**

- Plan, participate in and attend mass and deepen their understanding of the liturgy
- Grow in understanding of all the sacraments
- Pray appropriate common prayers regularly

##### **Christian Life - Students Will**

- Associate events in the liturgical year with their scriptural bases
- Recognize the distinction between and the relationship between Hebrew and Christian Scripture
- Become familiar with the Wisdom books of the Bible