

MARY QUEEN OF PEACE SCHOOL

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Eighth Grade

Religion

Content topics:

- The gifts of understanding, right judgment, wonder and awe, and rite of Confirmation
- Revelation of God
- Jesus Christ, the Only Son of God
- The Church
- The Prayer of the People of God
- Church History and history of the Archdiocese of St Louis
- Review of the liturgical year
- God's Own Making/Right START

Math

Students will:

- explain there are numbers that are not rational, and approximate them by rational numbers
- work with radicals and integer exponents
- prove the connections between proportional relationships, lines, and linear equations
- analyze and solve linear equations and pairs of simultaneous linear equations
- define, evaluate, and compare functions
- use functions to model relationships
- understand congruence and similarity
- apply the Pythagorean Theorem
- solve problems involving volume of cones, cylinders, and spheres
- investigate patterns in data (statistics and probability)

Algebra

- graph and analyze functions including transformations
- solve, write and graph equations and inequalities
- solve systems of equations and inequalities
- simplify exponential and polynomial expressions
- model, analyze and solve quadratic relationships
- summarize, represent, and interpret data
- manipulate equations

Language Arts

Content topics:

- Sentences (simple, compound, complex), punctuation and capitalization
- Sentence structure (phrases and clauses, diagraming)
- Review parts of speech (nouns, verbs, adverbs, adjectives, pronouns, prepositions, conjunctions)
- Vocabulary (literary and figurative meaning, literature context, word analysis)
- Word structure (standard spelling, connotations, word histories)
- Writing process (prewriting, writing, revising, editing, publishing)
- Types of writing (narrative, descriptive, expository, persuasive, newspaper, creative)
- Research process (Internet and computer, parenthetical citation, MLA thesis style w/Works Cited, dictionary, thesaurus)
- Collaborative writing
- Elements of literature with emphasis on social and historical significance
- Literary devices in literature context
- Poetry (narrative, lyrical, free verse)
- Fiction (interaction of setting, character, plot, point of view, and theme in novels, short stories, plays, epics, and myths)
- Non-fiction (historical connection of biography and autobiography)

Science

Content topics:

- Living Things
- Positive and negative impact of both bacteria and viruses
- Adaptations of both plants and animals
- History of the classification system
- Common diseases, and symptoms caused by living things
- Characteristics of Kingdoms and phylum of living things
- Genetics

Social Studies

Content topics:

- Civil War and Reconstruction
- Settlement of the West 1860-1900
- Rise of Big Business, Industry and the Labor Movement
- Immigration 1860-present
- American involvement and expansion in world affairs 1865-1914
- Causes, event and results of World War I
- 1920's
- Great Depression
- Causes, events and results of World War II
- Model United Nations process

Physical Education

Content topics:

- Motor skills, rules, and strategies of activities (lacrosse, field hockey, team handball)
- Proper execution of throwing, catching, striking, kicking, bouncing, and jumping while using age-appropriate mechanics, force, and direction
- Muscle strength, endurance, and flexibility
- Functions of all bones and muscles
- Heart rate and its relationship to exercise
- definition of nutrition, malnutrition, nutrients, and fitness

Computer

Content topics:

- Word Processing: writing short reports Import digital photographs
- Graphics: rotate, reduce, enlarge in Hyperstudio and word processor
- Spreadsheet: bar, pie and line graphs
- Import graphics from additional clip art folders Import digital photographs
- Import original graphics into word processor or Hyperstudio
- Use camera/scanner to import photographs/graphics into the word processor, Hyperstudio, or Drawing Program
- iMovie-editing video/add music/titles/digital photos

Art

Content topics:

- History (processes of criticism and aesthetic judgement of artists, styles, time periods, and cultures)
- Art elements and principles (line, shape, color, texture, value, form, space, variety, rhythm, balance, movement, proportion, gradation, emphasis, harmony, unity and contrast)
- Art media and processes (variety of drawing materials, acrylic paint, masks plaster techniques), collage, and assemblage)
- Two-dimensional imagery (drawing and painting projects on units of landscape, figure, portraits, still-life and non-objective art /design, decorative arts, and architecture)
- Three-dimensional forms (ceramic, sculpture, and mobiles)
- Equipment and art material safety (appropriate care and use)

Music

Content topics:

- Catholic music liturgy and music of the Church
- Vocal music literature of various styles and cultures
- Rhythm, tempo, melody, harmony, media, expression
- Student produced scores for vocal and instrumental music
- Recorder and instruction book
- Music in theater and character development
- Script reading, stage direction, terminology of the theater
- Multimedia listening and visual examples of instrumental and vocal music