

Mt. Calvary Lutheran School

8th Grade Curriculum

RELIGION

Overview: difference between Law and Gospel; the church year cycle; the importance of Martin Luther to the church and the world; God's gift of prayer; comparison of the four Gospels; the passion of Christ; the students' faith; study of a variety of Old and New Testament stories

Memory: weekly based on Bible verses from each religion unit

Worship: attend chapel weekly; present one chapel and Advent service each year

MATH/ALGEBRA I

Arithmetic: review operations with whole numbers, decimals, fractions

Graphs: graph linear equations by substitution and slope/intercept formula, graph circles, ellipses, hyperbolas, parabolas

Sets: understand set membership, represent subsets for real numbers symbolically

Real numbers: perform operations with integers; perform operations with multiple symbols of inclusion; solve problems with proportions, percents, rates, exponents, roots

Expressions: simplify expressions with negative exponents, simplify radical expressions, simplify and factor polynomials; add, multiply and

divide polynomials; simplify complex fractions

Equations: solve conditional and equivalent equations; solve equations with negative coefficients; solve systems of equations by elimination and substitution; solve equations with subscripted variables

Geometry: find the distance between two points; identify and classify polygons; find lateral surface area, surface area, and volume of geometric solids; use Pythagorean Theorem to find side

GEOMETRY (advanced class)

Overview: geometry foundation, logic and reasoning, construction, coordinate geometry, triangles: congruence and similarity, polygons, quadrilaterals, right triangles and trigonometry, circles, solids, transformations

LITERATURE/LANGUAGE ARTS

Literature: read main genres (short story, drama, novel, poetry); identify and analyze story elements (plot, character, setting, point of view, theme); analyze character qualities, feelings, actions & motives and how they support a character's realism; understand drama techniques; understand poetry terminology and apply to poems

read; drama project and presentation

Accelerated Reader: motivational reading tool that increases comprehension and vocabulary

Grammar: understand and appropriately use the eight parts of speech; understand & appropriately use clauses and verbals; use correct punctuation and capitalization; diagram sentences; dictation; journaling; deliver a persuasive speech using power point

Writing: progresses through the stages of the writing process; writes in a variety of styles (narrative, descriptive, persuasive, expository –three essays & research paper); write essays containing introductions, supporting evidence/paragraphs, and conclusions; use varied sentence structures from simple to complex and varied sentence beginnings; MLA format



Textbook Information

LITERATURE/LANGUAGE ARTS (Continued)

Spelling: words are grouped together according to common features such as sound, syllable pattern, spelling pattern, word part

Vocabulary: develop a school language vocabulary base in order to read with greater fluency; focus on context and learning how the words around the word relate to the meaning; words learned are commonly encountered in literature, content-area reading & textbooks and high-stake tests

SCIENCE

Physical Science: properties of matter; solids, liquids, and gases, elements and the periodic table, atoms and bonding, chemical reactions, balancing chemical equations, acids, bases, and solutions, carbon chemistry, motion, forces, Newton's laws of motion, Pascal's Principle, Bernoulli's Principle, work and machines, thermal energy and heat, magnetism and electricity
Labs: hands-on activities that incorporate the scientific method and lab safety, labs coincide with the unit of study and include a written lab report

SOCIAL STUDIES

Map Skills: U.S. geography
Settling the Americas: first Americans, European exploration, English colonization (Washington D.C./Williamsburg/Jamestown field trip)
Struggle for Independence: American Revolution
Establishing the Constitution: creating a federal government
Democracy: Age of Jefferson 1800 – Age of Reform 1860

Expansion, Division, Reunion and Growth: Age of Expansion, Civil War, Reconstruction
American Government/Civics/Constitution
Current/ Special Events

FOREIGN LANGUAGE

Web based program allowing students to speak and learn the language chosen which include Arabic, Chinese, Dutch, Farsi, French, German, Greek, Hebrew, Hindi, Irish, Italian, Japanese, Korean, Latin, Polish, Portuguese, Russian, Spanish, Swedish, Tagalog, Turkish, and Vietnamese

ART

Video based program covering elements and principles of art and drawing developmentally and sequentially; studying the art of artists, other cultures, and historic periods; emphasis on motivation, self-expression and media exploration

TECHNOLOGY

Blends computer-related learning activities into curriculum to have students acquire, organize, demonstrate, and communicate information

PHYSICAL EDUCATION

Muscle stretching & strengthening exercises
Sports & Activities: basketball, volleyball, flag football, hockey, dodgeball, kickball, track and field

RELIGION

Holy Bible NIV
Luther's Small Catechism

MATH

Algebra I
Saxon Publishers
Copyright 2003

Geometry
Saxon Publishing
Copyright 2009

LITERATURE/LANGUAGE ARTS

Enjoying Literature
Macmillan
Copyright 1985

Diary of Anne Frank
Romeo and Juliet

Grammar and Writing 8
Hake Publishing
Copyright 2011

Spelling Connections
Zaner-Bloser
Copyright 2007

Wordly Wise 3000 Book 8
School Specialty, Inc.
Copyright 2012

SCIENCE

Physical Science
Prentice Hall
Copyright 2007

SOCIAL STUDIES

A More Perfect Union
Houghton Mifflin
Copyright 2009