

STUDENTS IN FIFTH GRADE STUDY

Math

Number Sense

- Estimate, round, and manipulate very large and very small numbers
- Interpret percents as a part of a hundred; find decimal and percent equivalents for common fractions and explain why they represent the same value; compute and give percent of a whole number
- Understand and compute positive integer powers of nonnegative integers; compute examples as repeated multiplication
- Determine the prime factors of all numbers through 50 and write the numbers as the product of their prime factors by using exponents to show multiples of a factor
- Identify and represent on a number line decimals, fractions, mixed numbers, and positive and negative integers
- Add, subtract, multiply, and divide with decimals; add with negative integers; subtract positive integers from negative integers
- Demonstrate proficiency with division, including division with positive decimals and long division with multidigit divisors
- Solve simple problems, including ones arising in concrete situations, involving the addition and subtraction of fractions and mixed numbers and express answers in the simplest form
- Understand the concept of multiplication and division of fractions
- Compute and perform simple multiplication and division of fractions and apply these procedures to solving problems

Algebra and Functions

- Use information taken from a graph or equation to answer questions about a problem situation

- Use a letter to represent an unknown number; write and evaluate simple algebraic expressions in one variable by substitution
- Know and use the distributive property in equations and expressions with variables
- Identify and graph ordered pairs in the four quadrants of the coordinate plane
- Solve problems involving linear functions with integer values; write the equation; and graph the resulting ordered pairs of integers on a grid

Measurement and Geometry

- Derive and use the formula for the area of a triangle and of a parallelogram by comparing it with the formula for the area of a rectangle
- Construct a cube and rectangular box from two-dimensional patterns and use these patterns to compute the surface area for these objects
- Understand the concept of volume and use the appropriate units in common measuring systems to compute the volume of rectangular solids
- Differentiate between, and use appropriate units of measures for, two- and three-dimensional objects
- Know the concepts of mean, median, and mode; compute and compare simple examples to show that they may differ
- Organize and display single-variable data in appropriate graphs and representations, and explain which types of graphs are appropriate for various data sets
- Use fractions and percentages to compare data sets of different sizes
- Identify ordered pairs of data from a graph and interpret the meaning of the data in terms of the situation depicted by the graph
- Know how to write ordered pairs correctly

Mathematical Reasoning

- Make decisions on how to approach problems
- Use strategies, skills and concepts in finding solutions
- Move beyond a particular problem by generalizing to other situations

Language Arts

Reading

- Read and understand grade-level appropriate material
- Use word origins to determine the meaning of unknown words
- Know abstract, derived roots and affixes from Greek and Latin and use to analyze the meaning of complex words
- Comprehend the language usage of different time periods
- Analyze text in sequential or chronological order
- Draw inferences, conclusions, or generalizations
- Distinguish facts, supported inferences, and opinions
- Read and respond to historically or culturally significant works of literature

Writing

- Write clear, coherent, and focused essays
- Write a multiple-paragraph composition
- Create simple documents by using electronic media
- Use a thesaurus
- Edit and revise manuscripts
- Write narratives
- Write responses to literature
- Write research reports
- Write persuasive letters or compositions

- Utilize learned grammar skills to formulate a research report

Handwriting

- Write fluidly and legibly in cursive

Language

- Distinguish a subject and predicate
- Distinguish the correlation between subject and predicate
- Know the basic parts of speech (noun, verb, adjectives, adverbs)
- Know the use of commas in a sentence
- Use prepositional phrases, appositives, and independent and dependent clauses; use transitions and conjunctions to connect ideas
- Identify and correctly use verbs that are often misused, modifiers, and pronouns
- Use correct capitalization
- Use a colon to separate hours and minutes and to introduce a list; use quotation marks around the exact words of a speaker and titles of poems, songs, short stories, etc.

Spelling

- Improve sound-letter relationship, visual memory, and meaning
- Increase vocabulary by developing visual memory and meaning to words.
- Identify stress syllables by using context clues
- Use a spelling dictionary

Listening and Speaking Skills

- Listen attentively
- Deliver focused, coherent presentations that convey ideas clearly.
- Deliver narrative presentations
- Deliver informative presentations
- Deliver oral responses to literature

Social Studies

- Describe the major pre-Columbian settlements
- Trace the routes of the early explorers
- Describe the early explorations of the Americas
- Describe the relationship between Native Americans and settlers
- Understand the political, religious, social, and economic institutions that evolved in the colonial era
- Explain the causes of the American Revolution
- Understand the consequences of the American revolutions
- Describe the development of the US Constitution and its significance
- Trace colonization, immigration, and settlement patterns in American from 1789 to the mid-1800s
- Know the location of the 50 states and names their capitals

Bible

- Understand the nature of God through studying the Old Testament
- Understand how God used his chosen people, the Israelites, to illustrate His love for us
- Study the lives of Saul, David, Solomon, and Ruth
- Understand the plan of salvation
- Understand how to share the plan of salvation with others

Library

- Know and understand different types of literature
- Demonstrate library skills
- Demonstrate the writing process at a grade appropriate level
- Monthly Book Reports covering a variety of Genres
- Dewey Decimal classification

Art

- Use their senses to perceive works of art
- Identify visual structure of art
- Develop knowledge of and artistic skills in a variety of visual arts media and technical processes
- Create original artworks based on personal experiences or responses
- Explore the role of visual arts in culture and history
- Investigate major themes in historical and contemporary periods and styles of the visual arts throughout the world
- Derive meaning from artworks through analysis, interpretation, and judgment

Science

- Observe and describe matter and its properties
- Classify matter by atoms and elements
- Describe the many forms of energy and how it can be changed
- Understand that organisms are made from single cells to body systems
- Classify living things
- Recognize plants and their adaptations
- Describe and observe plant processes
- Describe the water cycle
- Observe the changing patterns of weather
- Predict weather and climate
- Describe the interactions between the earth and the moon
- Understand the planets of our solar system
- Demonstrate the scientific process

Computer

- Develop general technological awareness
- Basic keyboarding
- Paint, draw, and use graphics
- Develop word processing skills
- Understand research and use of the Internet
- Make multimedia presentations
- Learn desk top publishing
- Learn Excel

Physical Education

- Develop an enjoyment for sports and increase ability in coordination and basic skills.
- Encourage good sportsmanship
- Develop confidence in their physical abilities
- Understand and apply the rules for team and individual sports
- Understand why physical fitness is necessary for a healthy lifestyle
- Encourage students to play after school sports



Los Altos Christian Schools

What your Fifth Grader Studies



Accredited by ACSI and WASC
Susan N. Torode, Principal
625 Magdalena Avenue
Los Altos, CA 94024
650-948-3738

A Ministry of First Baptist Church Los Altos



Road Map