Sixth Grade Curriculum

Subject	Curriculum
Reading	• examine story elements (Character, Setting Problem/Goal, Events, Solution) • recognize, interpret, research and relate ideas to demonstrate comprehension of a story • apply library skills to research on selected topics
Writing	• compose and organize literacy pieces in clear form • revise and edit written work to vary sentence structure and transitions • use computer for all phases of the writing process
Listening	• analyze information based on oral presentations • differentiate and discriminate varied issues presented in class • follow directions presented orally
Speaking	• explain and demonstrate factual information based on research • create, produce and present a visual display • participate in group discussions

On-Level Math	• order of operations
	• variable and expressions
	  ○ translations, problem solving, using formulas to solve problems
	• equations and functions-properties of equality and tables
	• ratio/rate-equivalent rates and ratios
	• proportion (geometry and scale drawings, etc.)
	  ○ inverse operations and metric conversion
	• decimal multiplication and division
	  ○ powers of ten
	• fraction multiplication and division

Advanced Math	Numbers and Operations • Rational Numbers: add, subtract, multiply, and divide • Proportional Relationships: analyze, recognize, and represent Algebraic Concepts • Equivalent Expressions: generate, represent, evaluate • Evaluate Expressions: numerical and algebraic • Equations: construct and evaluate • Inequalities: construct and evaluate

	Geometry • Angle Measures • Geometric Figures • Circumference • Area • Surface Area • Volume Measurement, Data and Probability • Draw Inferences: random samples • Draw Comparative Inferences: two populations • Use probability to predict outcomes
Science	• work cooperatively creating graphs, data table design, generate hypothesis, draw analysis/conclusion (Bubble Gum Project) • use triple-beam balance, metric linear measurement, Celsius and Fahrenheit thermometer in laboratory • research and analysis of US energy resources and alternatives as they relate to environment (develop primary grade Big Book, ad campaign, story, editorial)
Social Studies	• identify details, uniqueness, and influence of ancient civilizations; Greece and Rome • follow the rise of Christianity from Rome to the Reformation • analyze the relationships between the Renaissance and the Age of Revolution • trace how Nationalism and Colonialism led to tension and conflict in Europe • examine the climate of the Cold War
Spanish	• telling others what they like to do and what they do not like to do • describing others • writing poems
Art	• elements and principles of art • ceramics –diorama • book making
Music	• participate in a concert exhibiting choral, instrumental, and dance techniques • examine the basic techniques of guitar playing • expand knowledge of choir chime repertoire • examine and recall basic components of opera
Physical Education	• have the confidence to join a sports team and be a productive member • demonstrate respect for individual differences among people • continue to value physical fitness during their life

	• understand that participating in physical activities/sports can provide an opportunity for developing an understanding and respect for differences among peers • Understand that warming up and stretching is necessary to reduce risk of injury and to improve performance • understand a basic concept of their physical capabilities in relation to stamina, endurance, strength, and flexibility
Technology	• explain the use of formulas in a spreadsheet • use a spreadsheet to solve math problems • design a simple problem and solve it with a spreadsheet • create a presentation including audio and video with a MacBook for Language Arts