

Botelle Elementary School

Grade 6 Curriculum Overview 2019-20

FALL		WINTER			SPRING		
READING UNITS OF STUDY							
Maintaining a Reading Life	A Deep Study of Character	Tapping the Power of Nonfiction	Social Issues Book Clubs	Genre Study: Fantasy			
<ul style="list-style-type: none"> Identify and explain books and authors of preference, using specific details to support claims. Develop and follow routines that support stamina, volume, comprehension and independent reading goals. Create a “course of study” to pursue a reading interest or goal, reading a collection of texts and drawing conclusions about them. Write responses to text using specific text evidence to support inferences. → 	<ul style="list-style-type: none"> Collect literal and inferential text evidence to identify the complex traits of a character. Analyze the motivations, pressures, problems and relationships of characters to determine multiple, reasonable themes. Determine how setting, time, mood affects the character. Identify and evaluate symbolism, figurative language and other craft techniques that contribute to the development of the character and plot. 	<ul style="list-style-type: none"> Determine the text’s central message by analyzing stories, events, ideas and people. Develop research skills and strategies by building background knowledge, summarizing and synthesizing ideas across text, building vocabulary and determining importance. Determine the author’s point of view and purpose and how it is conveyed; and when texts contradict, choose the most reliable source. 	<ul style="list-style-type: none"> Analyze the relationships of characters by considering their traits, who holds the power, and conflicts between them. Identify the group the characters belong to and how the character responds to issues; consider possible stereotypes and themes. Make connections to characters and themes. Identify the point of view of the author. 	<ul style="list-style-type: none"> Identify features unique to the genre and use specific details relevant to the plot to comprehend (narrator, setting, power, quest & other problems, historical and life themes). Identify factual information, metaphors, symbols, allegories and new vocabulary to comprehend at the literal and inferential levels. Consider how culture, gender norms, stereotypes and are portrayed. 			
WRITING UNITS OF STUDY							
Writer’s Notebooks and Independent Writing Projects	Personal Narrative: Crafting Powerful Life Stories	Research-Based Information Writing	The Literary Essay: From Character to Compare/Contrast	From Essay and Narrative to Memoir			
<ul style="list-style-type: none"> Apply the writing process to generate ideas, plan, draft and revise writing. Use a writer’s notebook to collect ideas, powerful language, stories, try craft techniques, etc. Determine the most appropriate genre (narrative, informational/opinion essay, letter, poem, etc.) for a self-selected topic. Apply spelling, grammar and punctuation conventions. → 	<ul style="list-style-type: none"> Write a narrative that includes tension, resolution, realistic characters and that conveys an idea or lesson. Develop realistic characters and develop details, action, dialogue and internal thinking that contributes to the deeper meaning of the story. Use precise descriptions and figurative language. 	<ul style="list-style-type: none"> Write an informative, researched explanatory essay on a current topic of interest. Synthesize an array of information, creating a logical structure that incorporates quotations with citations and has a correct and appropriate tone and style. Elaborate by explaining information and ideas, using exact phrases, comparisons, analogies, and images. 	<ul style="list-style-type: none"> Write a series of literary essays that analyze characters, explore theme, and/or compare-contrast different texts. State a position and support it with a variety of sources and build an argument that leads to a conclusion. Use careful word choice, precise phrases, metaphors, analogies and images, as well as use shifts in tone to develop an argument. 	<ul style="list-style-type: none"> Research and analyze one’s own life to find new meanings about central ideas and themes. Study different memoir structures and choosing the form that best suits the idea they want to put forth. Write a memoir of an important moment that includes developed characters, setting and plot using a blend of description, action, dialogue and thinking. 			
MATHEMATICS UNITS OF STUDY							
Area and Surface Area	Introducing Ratios	Unit Rates and Percentages	Dividing Fractions	Arithmetic in Base Ten	Expressions and Equations	Rational Numbers	Data Sets and Distributions
<ul style="list-style-type: none"> find areas of polygons by decomposing, rearranging, and composing shapes. Find the volume of a right rectangular prism with fractional edge lengths. Represent three-dimensional figures using nets made up of rectangles and triangles, and use the nets to find the surface area. Apply strategies in the context of solving real-world and mathematical problems. 	<ul style="list-style-type: none"> Understand the concept of a ratio and use ratio language to describe relationships between two quantities. Use ratio and rate reasoning (tables of equivalent ratios, tape diagrams, double number line diagrams, or equations) to solve real-world and mathematical problems. Make tables of equivalent ratios relating quantities with whole-number measurements. 	<ul style="list-style-type: none"> Understand the concept of a unit rate a/b associated with a ratio $a:b$ and use the terms <i>unit rate</i>, <i>speed</i>, <i>pace</i>, <i>percent</i>, and <i>percentage</i>. Recognize that equivalent ratios have equal unit rates. Represent percentages with tables, tape diagrams, double number line diagrams, and as expressions. Use terms and representations when reasoning. 	<ul style="list-style-type: none"> Examine how the sizes of numerator and denominator affect the size of their quotient when numerator or denominator (or both) is a fraction. Understand that dividing by ab has the same outcome as multiplying by b, then by $1a$; compute quotients of fractions. Solve problems lengths and areas and extend the formula for volume to prisms with fractional edge lengths. 	<ul style="list-style-type: none"> Compute sums, differences, products, and quotients of multi-digit whole numbers and decimals using visual representations of the base 10 system and efficient algorithms. Solve problems set in real-world contexts with whole numbers and decimals. 	<ul style="list-style-type: none"> Represent and solve linear equations that have one variable (e.g., $x + 1 = 5$ and $4x = 2$). Write and evaluate expressions with whole-number exponents and whole-number, fraction or variable bases. Represent algebraic expressions and equations in order to solve problems. Represent collections of equivalent ratios as equations. 	<ul style="list-style-type: none"> Understand and compare positive and negative numbers. Solve simple inequalities and show solutions symbolically and on the number line. Interpret solutions of inequalities in contexts. Plot pairs of signed number coordinates in all four quadrants of the coordinate plane, understand the correspondence between a pair of coordinates and the quadrant of the point. 	<ul style="list-style-type: none"> Use the terms <i>numerical data</i>, <i>categorical data</i>, <i>survey</i>, <i>statistical question</i>, <i>variability</i>, <i>distribution</i>, and <i>frequency</i> in the context of a study of populations. Make and interpret histograms, bar graphs, tables of frequencies, and box plots. Understand and interpret measures of center using the terms <i>mean</i>, <i>average</i>, and <i>median</i> and measures of variability.
CONTENT UNITS OF STUDY							
Science:	Social Studies: Revolutionary	Science:	Social Studies:	Science:	Social Studies:	Science:	Science:

Weather & Atmosphere	Figures and Their Roles	Medicine Drone		Bio Bottle		Disaster Movie
<ul style="list-style-type: none"> • Understand factors that interact and influence weather. • Develop and use a model to describe the cycling of water through Earth's systems. • Analyze and interpret data to determine relationships between geography and weather/climate. • Develop and use a model to describe the the flow of energy and cycling of matter in Earth's atmosphere and oceans. • Understand how humans affect Earth's systems and how can we limit negative impacts. 	<ul style="list-style-type: none"> • Research historical figures and their contributions to the Revolution. • Integrate information from a variety of sources and create a presentation. • Quote accurately and cite sources. 	<ul style="list-style-type: none"> • Read and research drones and their uses so as to design one that will solve a real-world problem. • Explore how energy effects models by investigating what makes things melt faster or slower. • Explore how energy can transfer between objects and investigate the ways in which heat is transferred (convection, conduction, and radiation) so as to keep objects cold (or warm). • Apply principles learned to design and test prototypes of a drone and container and present their findings. 		<ul style="list-style-type: none"> • Identify the key components of an ecosystem - abiotic and biotic factors and test a specific abiotic factor to discover its effect. • Determine the process in which energy is attained- photosynthesis- and how matter flows from producers to consumers. • Identify the components necessary for a healthy ecosystem, as well as ones that may place an ecosystem at risk. • Design a bio bottle based on the models designed and refined throughout the course of the unit. 		<ul style="list-style-type: none"> • Watch a short video clip from a disaster movie to make observations and create arguments about what they are seeing. • Understand plate boundaries and Earth's movements occur by exploring hot spots and convection currents • Study tsunamis, earthquakes, how water shapes Earth's surface, as well as the rock cycle to understand how the Earth's surface can be changed dramatically and over time.