Botelle Elementary School
Upper Intermediate Curriculum Overview 2022-23
(YEAR A)

refer to 6-8 Back to School Readiness Unit for BOY lessons on community, routines, etc.

FALL		WINTER		SPRING
READING UNITS OF STUDY				
Building an Independent Reading Life	**Tackling Complexity: Moving up Levels of Nonfiction**	**Interpretation Book Clubs: Analyzing Theme**	**Argument and Advocacy**	**Fantasy Book Clubs**
-Set, monitor and evaluate new, ambitious goals for reading to improve engagement, stamina, accuracy, fluency and/or comprehension. -Explain and analyze what the text says explicitly when drawing inferences. -Use evidence from texts to support oral and written analysis and reflection.	-Read various nonfiction texts to conduct research on specific topics. -Determine the main/central ideas of texts and explain how they are supported by key details. -Take notes on main ideas and key details and summarize the texts. -Compare and contrast the ideas presented and the structure of two or more texts, analyze arguments, and investigate points of view.	-Determine the theme(s) of a text and how it is conveyed through details, including how characters respond to challenges. -Quote accurately from a text when analyzing what a text says explicitly and when making inferences. -Participate in book clubs, applying speaking and listening skills to develop an idea and support it using textual evidence. -Compare and contrast how authors develop themes differently by analyzing characters, settings and plots.	-Research and discuss debatable topics to understand the author's argument/claim and how it is supported with reasons and evidence. -Debate an issue by summarizing arguments, using the important information from various texts to support ideas. -Determine an author's perspective to understand how their ideas fit into the issue. -Compare and contrast how authors include particular words, phrases, reasons and evidence to write a believable argument.	-Understand how the features of the fantasy genre affect the development of the characters, setting, plot and themes. -Compare characters and how their internal and external conflicts contribute to the themes of the texts. -Determine the meaning of words, phrases used in a text, including figurative, connotative, and analyze their effects on tone. -Discuss the archetypes that often occur in fantasy as well as characters that break those stereotypical representations.
WRITING UNITS OF STUDY				
Narrative Craft	**Writing Research Reports or Journalism or Up the Ladder Informational**	**Literary Essay**	**Research Based Argument Essay**	**Poetry Anthologies (G5 If…Then)**
-Generate ideas for narratives that have personal significance. -Collect stories in a writer's notebook and use the writing process to develop three personal narratives. -Use elaborative craft techniques to bring story scenes to life for the reader. -Write a lead and ending that connects to the theme in the story, using dialogue, thinking or feelings. -Use transition words and phrases to connect different settings, timeframes and scenes. - Apply editing skills to write clearly using appropriate conventions and spelling.→	-Choose a topic to research, read various sources and take notes on the important main ideas and details. -Write a research report that introduces a topic clearly, provides a focus, and groups related information logically. -Develop the topic with facts, definitions, concrete details, quotations, or other information and examples related to the topic -Use precise language and domain-specific vocabulary to inform about or explain the topic. -Provide a concluding statement or section related to the information or explanation presented. -Develop revision skills as they reread their draft using various lenses.	-Write opinion essays about a character or theme that makes a claim and is supported logically with reasons, facts and details that demonstrate an understanding of the text. -Read texts closely, looking for small details to develop interpretive claims about characters or themes. -Refer to checklists and mentor texts throughout the writing process to apply organizational and elaboration strategies to the essay. -Link opinion and reasons using words, phrases and clauses (e.g. consequently, specifically, etc.)	-Write research based argument essays about debatable topics by reading/viewing texts and media from both sides of the argument to identify arguments, reasons and key details. -Support arguments and reasons with direct quotes and paraphrased information from sources, providing a list of sources. -Read critically to determine the author's point of view, identifying conflicting information in order to take notes on the argument. -Elaborate the reasons with the most convincing evidence, including counterclaims, in order to persuade the reader/audience. -Revise drafts to produce clear, coherent writing in which the development and organization are appropriate to the task, purpose and audience.	-Read poems on the same topic/theme and analyze how a particular word, phrase, line or stanza fits into the overall structure and contributes to the development of the theme. -Identify the poet's perspectives and approaches within the same topic/theme. -Collect ideas for poems in a writer's notebook using a variety of strategies -Write free verse poems using line breaks, repetition, figurative language and sensory images to convey meaning. -Explore other forms of poetry. -Revise and edit poems, publishing an anthology that forwards a theme or perspective.

CONTENT UNITS OF STUDY

Social Studies: The American Revolution	Science: **Weather & Atmosphere**	Social Studies: US Constitution & Government	Science: **Medicine Drone**	Social Studies: Westward Expansion	Science: **Bio Bottle**
-Explain the causes of the American Revolution and identify the significant events leading up to the war with England. -Describe significant battles, who fought them and why they were important. -Examine the role of CT in the Revolution and what happened to the Loyalists at the start of the war. -Evaluate how indigenous people and women played vital roles in the Revolutionary War.	-Identify factors that interact with and influence the weather. Describe the processes involved in the cycling of water through Earth's systems. -Explain the factors that determine regional climates. -Discuss the relationship between the interaction of complex air masses and changes in the weather. -Explain how humans impact Earth's systems and how we can limit negative impacts.	-Describe what it means to be a citizen. -Explore ways to take part in civic life. -Describe how the US Constitution created our government system -Evaluate the importance of the Bill of Rights. -Research current political figures and their position within federal, state and local government. -Integrate information from a variety of sources.	-Explore energy and investigate what makes things melt faster or slower. -Explore how energy is transferred between objects and which objects transfer energy more effectively. -Apply the principles to the creation of a drone that will fly medicine that must be kept cold into a remote area. -Test prototypes, make modifications and explain findings.	-Investigate the movement and settlement patterns of people who immigrated to the country or migrated within it. -Describe "Manifest Destiny" and how the concept was used to justify westward expansion. -Examine the geographical and cultural forces that contributed to conflict and cooperation with different groups of people as America grew.	-Determine what is needed for life in a contained environment. -Identify the key components of an ecosystem. -Discover the process in which energy is obtained and how it flows from producers to consumers throughout an ecosystem.

MATHEMATICS UNITS OF STUDY: FIFTH GRADE

Finding Volume	Fractions as Quotients and Fraction Multiplication	Fraction Multiplication and Division	Whole Number Multiplication and Division	Place Value Patterns and Decimal Operations	More Fraction Operations	Coordinate Grid and Shapes	Putting it All Together
-Describe volume as the space taken up by a three dimensional object. -Measure the volume of a rectangular prism by finding the number of unit cubes needed to fill it. -Use the layered structure in a rectangular prism to find volume. -Describe the calculations from the previous section as length x width x height or (area of base) x height. -Find volume using length x width x height or (area of base) x height. -Find the volume of a figure composed of rectangular prisms.	-Interpret a fraction as the division of the numerator by the denominator. -Solve problems involving division of whole numbers leading to answers in the form of mixed numbers and fractions to develop an understanding of $a \div b = a/b$ -Interpret multiplication of a whole number by a fraction as dividing the whole number by the denominator of the fraction, and multiplying the whole number by the numerator. -Solve problems involving multiplication of fractions. -Use area understanding to represent the multiplication of a whole number by a fraction and to find the area of a rectangle when one side length is a fraction and the other side length is a whole number. -Solve problems involving the multiplication of a whole number by a fraction by using numerical methods.	-Represent the multiplication of a fraction by a fraction using area diagrams, and write multiplication expressions to represent a shaded area with dimensions that are fractions. -Generalize and apply $a/b \times c/d = a \times c / b \times d$ to multiply fractions -Interpret multiplication of a whole number and a mixed number. -Interpret, write and solve "how many in each group" and "how many groups" situations to divide a whole number by a unit fraction and a unit fraction by a whole number. -Solve problems involving fraction multiplication and division.	-Multiply multi-digit numbers, using strategies based on place value and the properties of operations, including the standard algorithm. -Use the relationship between multiplication, division, and place value understanding to estimate quotients and divide whole numbers up to four digits by two digits. -Solve problems involving volume and the multiplication and division of multi-digit whole numbers.	-Read, write, and represent decimals to the thousandths place, including expanded form. -Recognize that in a multi-digit number, a digit in one place represents 10 times as much as it represents in the place to its right and 1/10 of what represents in the place to its left. -Compare, round and order decimals through the thousandths place based on the value of the digits in each place. -Use strategies based on place value to add and subtract decimals to the hundredths. -Multiply and divide decimals with products and quotients resulting in the hundredths using place value reasoning and properties of operations. -Use whole-number exponents to denote powers of 10 and explain patterns in the number of zeros and placement of the decimal point when a decimal is multiplied or divided by a power of 10.	-Convert metric lengths from a larger unit to a smaller unit and from a smaller unit to a larger unit within a given measurement system and use these conversions in solving multi-step, real world problems. -Add and subtract fractions with unlike denominators by producing an equivalent sum or difference of fractions with like denominators. -Make a line plot to display a data set of measurements in fractions of a unit (½, ¼, ⅛) and use the information presented in line plots to solve problems involving fraction operations. -Compare the size of a product to the size of one factor on the basis of the size of the other factor, without performing the indicated multiplication. -Make generalizations about multiplying a whole number by a fraction greater than, less than and equal to 1.	-Plot coordinate pairs on a coordinate grid. -Classify triangles and quadrilaterals in a hierarchy based on properties of side length and angle measure. -Generate, identify, and graph relationships between corresponding terms in two patterns, given a rule. -Represent and interpret real world and mathematical problems on a coordinate grid.	-Fluently add, subtract, multiply, and divide to solve problems involving whole numbers, fractions, and decimals. -Apply volume concepts to solve problems. -Interpret, write and evaluate numerical expressions with grouping symbols.

MATHEMATICS UNITS OF STUDY: SIXTH GRADE							
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**
-Find areas of polygons by composing, 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.	-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.	-Understand the concept of a unit rate a/b associated with a ratio $a:b$ and use the terms *unit rate*, *speed*, *pace*, *percent*, and *percentage*. -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.	-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.	-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.	-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.	-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.	-Use the terms *numerical data*, *categorical data*, *survey*, *statistical question*, *variability*, *distribution*, and *frequency* 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 *mean*, *average*, and *median* and measures of variability.