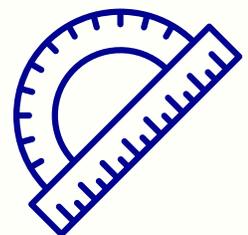
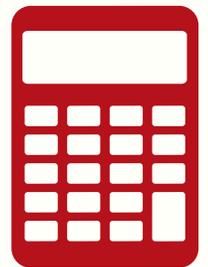
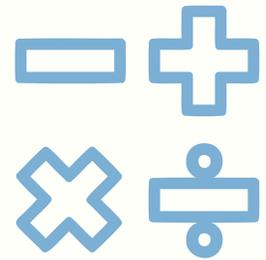




EPISCOPAL DAY SCHOOL

MATHEMATICS

CURRICULUM SNAPSHOT



2248 Walton Way, Augusta, GA 30904
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MATHEMATICS

By the end of each grade level, students will be able to:



<i>Young 3s</i>	<ul style="list-style-type: none">• Recognize numbers 0-5• Rote counting 1 to 10• Recognize basic shapes
<i>Older 3s</i>	<ul style="list-style-type: none">• Recognize numbers 0-10• Rote count 1 to 10• Identify and name circle, triangle, square, and rectangle
<i>PreKindergarten</i>	<ul style="list-style-type: none">• Recognize numbers 0-15• Write numbers 0-10• Rote count 1 to 20• Identify, name, and begin to create an ABC pattern
<i>Kindergarten</i>	<ul style="list-style-type: none">• Orally count and recognize numbers to 110, and skip count by 2s, 5s, and 10s• Model and create addition and subtraction stories using concrete objects• Lead the class in calendar and weather routines
<i>1st Grade</i>	<ul style="list-style-type: none">• Add/subtract, compare, order and model whole numbers up to 100• Collect and interpret data using tally marks, picture graphs, and bar graphs• Reason with shapes and their attributes
<i>2nd Grade</i>	<ul style="list-style-type: none">• Develop quick recall of basic addition and subtraction facts and use addition and subtraction facts of whole numbers (up to two digits) to create and solve word problems• Represent and compare numbers using number sentences up to 1000• Connect place value to values of money• Develop an initial understanding of multiplication as repeated addition and determine the product of two one-digit numbers
<i>3rd Grade</i>	<ul style="list-style-type: none">• Add and subtract whole numbers and decimals in a money context• Develop quick recall of basic multiplication and division facts; solve 2-3 digit problems multiplied by a one digit whole number• Explore geometric concepts: name 2 and 3D figures; identify, draw points, and label intersecting and parallel line segments, lines, rays, and right angles• Collect and organize data to create graphs, tables or charts and use these graphs to ask and answer simple questions and draw conclusions
<i>4th Grade</i>	<ul style="list-style-type: none">• Multiply multi-digit numbers and divide long division with a single-digit divisor• Add and subtract fractions with a common denominator, and develop an understanding of fractions• Understand and compare properties of 2-dimensional shapes to solve problems involving symmetry• Use arithmetic to solve simple expressions and equations
<i>5th Grade</i>	<ul style="list-style-type: none">• Add, subtract, multiply, and divide fractions and decimals• Use the order of operations to create, simplify, and solve expressions• Plot points on the coordinate plane and calculate distance and area of objects on the coordinate plane
<i>6th Grade</i>	<ul style="list-style-type: none">• Write and solve one-step algebraic equations• Evaluate one-step equations using integers and all four operations (+, -, x, /)• Find rate, ratio, and proportions using equivalent fractions and algebraic equations
<i>7th Grade</i>	<ul style="list-style-type: none">• Solve multi-step equations using rational numbers• Graph simple linear equations and use properties of algebra to find slope and define lines• Calculate missing side lengths, area, surface area, and volume of complex geometric figures using algebraic problem-solving strategies
<i>8th Grade</i>	<ul style="list-style-type: none">• Demonstrate problem-solving proficiency with linear, quadratic, and exponential equations and functions that shows readiness for higher level high school mathematics• Manipulate a variety of scientific and geometric formulas to determine the solutions to real-world applications• Explain the problem-solving process behind solving multi-step and quadratic equations, and explain the thinking and reasoning behind solutions

MATHEMATICS

In addition, students will:



Young 3s

- Identify the 8 basic colors
- Begin to recognize a simple pattern
- Be introduced to the concept of 1-1 correspondence with 5 objects

Older 3s

- Identify, name, and begin to create an AB pattern
- Learn to categorize items by shape, color, and size
- Begin to understand 1-1 correspondence by using objects and numbers 1-5
- Begin to understand the concept of more and less

PreKindergarten

- Be able to make and read a graph
- Understand 1-1 correspondence by using objects and numbers 1-10
- Be introduced to place value and simple addition and subtraction

Kindergarten

- Learn the names and values of coins through play and real-world experiences
- Produce and extend patterns using shapes, colors, lines, movements, and objects
- Practice math skills using game-based learning in cooperation with a partner

1st Grade

- Apply their knowledge of addition and subtraction to solve real-life word problems
- Create various graphs using real-life data they have gathered
- Collect/graph data and log weather conditions out at Flowing Wells Campus using various tools (thermometer, ruler, weather wheel)

2nd Grade

- Shop at the classroom store, maintain and read a store inventory list, and make change correctly
- Measure and graph soil temperature and test water over an extended period of time at the Flowing Wells Campus
- Name fractional parts, practice following directions, and use paper-folding techniques to create origami figures

3rd Grade

- Solve multistep problems after deciding which strategy/strategies and tools are most effective
- Confidently recall addition and subtraction facts in everyday use
- Work collaboratively to apply logic and deductive reasoning in mathematical problem-solving

4th Grade

- Apply basic computation skills in more complex word problems and story problems and as part of their States Fair research project
- Use models and manipulatives to explain and represent: place value, multiplication and division, fractions, and geometry
- Apply logic and deductive reasoning to word problems

5th Grade

- Apply decimal operation skills by making a plan to spend, save, and donate a million dollars while documenting and calculating each expenditure and the associated tax
- Design a square foot garden based on the use of fractions, create a planting plan, calculate seed purchases, and carry out their garden plan at FWC
- Calculate area and volume of objects at Flowing Wells Campus using fractional measurements and measurement conversions

6th Grade

- Create an actual micro-business calculating unit rate, net income, and gross income to raise money for Toys for Tots
- Apply math concepts to meaningful work and real-world applications by designing a 5K course and analyzing the mathematics behind the voting system
- Apply language to mathematics through discussion of mathematical thinking

7th Grade

- Apply real-world skills of geometry by designing a backyard landscape and calculating building supply needs and cost
- Make connections between life science and pre-algebra skills by applying probability to genetic principles, using Punnett squares to determine the characteristics of a baby dragon
- Make connections between patterns and linear and non-linear equations by illustrating each type of equation

8th Grade

- Earn a high school credit in Algebra 1
- Develop real-world applications of Algebra concepts as they relate to 21st-century careers
- Use statistical analysis to interpret and describe the results of field studies and scientific investigations at the Walton Way and Flowing Wells Campus
- Develop math note-taking skills