LEVEL 2 MATH SCOPE AND SEQUENCE

CURRICULUM FRAMEWORK

Germantown Academy Lower School uses **Math in Focus** as a curriculum framework. Math in Focus, the United States' adaptation of Singapore Math, is a mastery-based program that builds problem solving skills through hands-on learning, visualization, and pictorial representations.

PROGRAM ELEMENTS

Concepts Students build a solid understanding of the mathematical ideas underlying procedures and algorithms.	**Fact Fluency** Students gain automaticity with their basic facts (+/- to 20; x/÷ 1-12). Fact fluency is an important foundation that allows students to access, apply, and retain new, more complex learning.
Skills Students learn strategies and procedures for problem solving. They learn to apply these strategies and procedures flexibly and efficiently.	**Assessment** Student progress is regularly monitored, both formally and informally. Assessment guides skills-based grouping (1st -5th grades) and identifies need for support or challenge.

LEVEL 2 MATH CONCEPTS

Numbers, Operations, Algebraic Thinking and Problem Solving

- Count, write, and represent numbers up to 1,000
- Compare (use >, <, and =) and order whole numbers up to 1,000
- Understand place value to 1,000 (ones, tens, hundreds)
- Fluently add and subtract within 20
- Add and subtract whole numbers to 1,000 with and without regrouping
- Multiply and divide with 2, 3, 4, 5, and 10
- Conceptualize and represent multiplication as repeated addition and division as repeated subtraction
- Use number sentences to represent real-world problems
- Identify rules to show number patterns
- Solve real-world problems involving addition, subtraction, multiplication, and division

Measurement, Data and Geometry

- Tell time to the nearest 5 minutes and find elapsed time
- Compare and measure lengths using customary and metric units
- Interpret data and create pictographs, bar graphs and line plots
- Sort and classify two- and three-dimensional shapes by properties
- Identify, count, and compare combinations of coins and bills and solve word problems involving money
- Partition circles and rectangles into unit fractions: halves, thirds, and fourths