LEVEL 1 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 1 MATH CONCEPTS

Numbers, Operations, Algebraic Thinking and Problem Solving

- Count, write, and represent numbers to 120
- Compare (use >, <, and =) and order whole numbers to 100
- Add and subtract within 100 (with and without regrouping) using manipulatives, pictorial models, and algorithms
- Build fluency with basic addition and subtraction facts (sums to 20)
- Write and solve addition and subtraction equations
- Apply and explain problem solving strategies and processes

Measurement, Data and Geometry

- Represent and interpret data in tally charts and pictographs
- Measure and compare lengths using different units
- Tell time to the hour and half hour
- Identify and sort coins (penny, nickel, dime, quarter)
- Count and make simple coin combinations
- Identify, sort, and classify flat and solid shapes and their attributes
- Divide shapes into equal parts
- Identify and extend growing number patterns and repeating shape patterns