

## **SAIL Math Frameworks**

*By the end of 5<sup>th</sup> grade, SAIL students should be able to:*

- Establish a firm understanding of place value, rounding, estimation, integers, prime and composite numbers.
- Identify patterns and apply embedded rules in order to solve real-world problems, and understand how to balance algebraic equations using manipulatives.
- Collect, organize and analyze data by creating graphs, tables and charts.
- Know general formulas (e.g., area, perimeter, circumference, volume) and be able to classify two and three dimensional objects, as well as understand coordinate graphing.
- Use measurement tools to solve metric and standard problems.
- Master math facts with speed and accuracy, and use algorithms for the four basic operations, with whole numbers, fractions and decimals.
- Apply the eight-problem solving technique, and explain in words and pictures how multi-step problems are solved, using the order of operations.
- Know general terminology (e.g., GCF, LCM, prime and composite numbers), as well as algorithms for using the four operations to solve problems.
- Hypothesize using probability terms; e.g., outcomes, likely, unlikely.