



Avon Grove Charter School
Mathematical Skills
Grade Level: Third

AGCS uses Math in Focus as its primary elementary mathematics program. The purpose of this document is to provide an overview of the major concepts/skills at this grade level. Parents are the target audience of this resource, however students may also find it helpful as a skills checklist.

NUMBERS AND OPERATIONS

A student will be able to...

- Apply place value understanding and properties of operations to perform multi-digit arithmetic.
- Explore and develop an understanding of fractions as numbers.

This content will appear in Math in Focus chapters 1, 2, 3, and 14.

ALGEBRAIC CONCEPTS

A student will be able to...

- Represent and solve problems involving multiplication and division.
- Understand properties of multiplication and the relationships between multiplication and division.
- Demonstrate multiplication and division fluency.
- Solve problems involving the four operations, and identify and explain patterns in arithmetic.

This content will appear in Math in Focus chapters 6, 7, 8, and 9.

GEOMETRY

A student will be able to...

- Identify, compare, and classify shapes and their attributes.
- Use the understanding of fractions to partition shapes into parts with equal areas and express the area of each part as a unit fraction of the whole.

This content will appear in Math in Focus chapters 14, 17, 18, and 19.

MEASUREMENT, DATA, AND PROBABILITY

A student will be able to...

- Solve problems involving measurement & estimation of temperature, liquid volume, mass or length.
- Tell and write time to the nearest minute and solve problems by calculating time intervals.
- Solve problems and make change involving money using a combination of coins and bills.
- Represent and interpret data using tally charts, tables, pictographs, line plots, and bar graphs.
- Determine the area of a rectangle and apply the concept to multiplication and to addition.
- Solve problems involving perimeters of polygons and distinguish between linear and area measures.

This content will appear in Math in Focus chapters 10, 11, 12, 13, 16, and 19.