



**Avon Grove Charter School**  
*Mathematical Skills*  
Grade Level: Seventh

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...***

- Analyze proportional relationships and use them to model and solve real-world and mathematical problems.
- Apply and extend previous understandings of operations with fractions to operations with rational numbers.

Course 2A: Chapter 1, 2  
Course 2B: Chapter 7, 8

**ALGEBRAIC CONCEPTS**

***A student will be able to...***

- Apply properties of operations to generate equivalent expressions.
- Apply and extend previous understandings of operations with fractions to operations with rational numbers.

Course 2A: Chapter 3, 4,5

**GEOMETRY**

***A student will be able to...***

- Visualize and represent geometric figures and describe the relationships between them.
- Solve real-world problems involving area, volume, and surface area of two and three dimensional objects.

Course 2B: Chapter 6, 7, 8, 9

**MEASUREMENT, DATA, AND PROBABILITY**

***A student will be able to...***

- Draw inferences about populations based on random sampling concepts.
- Draw informal comparative inferences about two populations.
- Investigate chance processes and develop, use, and evaluate probability models.

Course 2B: Chapter 10