



# Math 6 ACC Course Syllabus



Student Name: \_\_\_\_\_

Parent Signature: \_\_\_\_\_

## Course Description:

Grade 6 mathematics focuses on 5 major areas: ratio and rate reasoning involving whole number multiplication and division to solve problems, developing a deep understanding of fraction division, widening the understanding of "number" as how it pertains to the set of rational numbers, interpreting and writing expressions and equations, and using statistical thinking when examining data and understanding concluding results. Accelerated Math 6 covers the entire 6th grade curriculum and parts of 7th grade standards at a faster pace, all of which is merged together throughout the year.

\*Because the goal of our district is to find a "right fit" for math students to insure that they develop strong, basic skills to prepare them for success in Algebra 1 and beyond, students in the Compacted Math program must continue to perform at an above average level to continue in the program. If a student is earning a "C" in the course, the teacher will contact the parent(s) and notify them of concerns. Any student earning a "D" or "F" as a final quarter grade may have a placement change into the regular math program. This is to insure that the student is able to engage with the material at an appropriate level and pace to develop strong mathematical skills for success in Algebra 1 (and beyond) at the high school level.\*

## Instructor:

Teacher Name:

Classroom:

Email:

Phone:

## Course Materials Required:

- 1" or 1.5" Math 3-Ring Binder with 5 Tabs
- Dry Erase Markers
- **Non-Scientific** Calculator
- Red Pen/Pencils
- Highlighters
- Fully Charged Chromebook
- Math 6/7 textbook (optional checkout at the library)

## Course Outline

Unit	Topics
1 - Number Systems	<ul style="list-style-type: none"> <li>• Decimals Operations</li> <li>• Least Common Multiple</li> <li>• Distributive Property</li> <li>• Dividing Fractions</li> <li>• Greatest Common Factor</li> </ul>
2 - Number Systems Part 2	<ul style="list-style-type: none"> <li>• Rational Numbers</li> <li>• Understanding Zero</li> <li>• Reflections</li> <li>• Plotting on Number Lines</li> <li>• Coordinate Plane</li> <li>• Absolute Value</li> </ul>

<i>7th Grade- Operations with Rational Numbers</i>	<ul style="list-style-type: none"> <li>• <i>Operations with positive and negative rational numbers</i></li> </ul>	<ul style="list-style-type: none"> <li>• <i>Decimal, percent, and fraction conversion</i></li> </ul>
<i>3 - Expressions</i>	<ul style="list-style-type: none"> <li>• <i>Word Expressions</i></li> <li>• <i>Distributive property</i></li> <li>• <i>Order of Operations</i></li> </ul>	<ul style="list-style-type: none"> <li>• <i>Combining Like Terms</i></li> <li>• <i>Equivalent Expressions</i></li> <li>• <i>Evaluating Expressions</i></li> </ul>
<i>4 - Equations</i>	<ul style="list-style-type: none"> <li>• <i>One Step Equations</i></li> <li>• <i>Word Problems</i></li> </ul>	<ul style="list-style-type: none"> <li>• <i>Formulas</i></li> <li>• <i>Inequalities</i></li> </ul>
<i>7th Grade- Equations &amp; Inequalities</i>	<ul style="list-style-type: none"> <li>• <i>Multistep Equations</i></li> <li>• <i>Combining like terms with negative terms</i></li> </ul>	<ul style="list-style-type: none"> <li>• <i>Solving Inequalities</i></li> <li>• <i>Equations for Supplementary, Complementary, Vertical, and Adjacent angles</i></li> </ul>
<i>5 - Ratios</i>	<ul style="list-style-type: none"> <li>• <i>Equivalent Ratios</i></li> <li>• <i>Unit Rate</i></li> <li>• <i>Percents</i></li> <li>• <i>Independent/Dependent Variables</i></li> </ul>	<ul style="list-style-type: none"> <li>• <i>Graphing Ratios</i></li> <li>• <i>Double Number Lines</i></li> <li>• <i>Tape Diagrams</i></li> <li>• <i>Conversions</i></li> </ul>
<i>6 - Geometry</i>	<ul style="list-style-type: none"> <li>• <i>Area of Parallelograms</i></li> <li>• <i>Area of Composite Figures</i></li> <li>• <i>Surface Area</i></li> </ul>	<ul style="list-style-type: none"> <li>• <i>Area of Triangles</i></li> <li>• <i>Area of Trapezoids</i></li> <li>• <i>Area on Coordinate Plane</i></li> <li>• <i>Volume with Fractional Edges</i></li> </ul>
<i>7 - Statistics</i>	<ul style="list-style-type: none"> <li>• <i>Statistical Questions</i></li> <li>• <i>Measures of Variability</i></li> </ul>	<ul style="list-style-type: none"> <li>• <i>Measures of Center</i></li> <li>• <i>Displaying &amp; Summarizing Data</i></li> </ul>
<i>7th Grade- Geometry</i>	<ul style="list-style-type: none"> <li>• <i>Constructing triangles with given conditions</i></li> <li>• <i>Area, Volume and Surface Area of two- and three-dimensional objects composed of triangles, quadrilaterals, polygons, cubes, and right prisms.</i></li> </ul>	<ul style="list-style-type: none"> <li>• <i>Describe the two-dimensional figures that result from slicing three-dimensional figures, as in plane sections of right rectangular prisms and right rectangular pyramids.</i></li> <li>• <i>Formulas for the area and circumference of a circle</i></li> </ul>

### Major Course Assessments

1. *Unit 1 - Number Systems Part 1 Test*
2. *Unit 2 - Number Systems Part 2 Test*
3. *7th Grade- Operations with Rational Numbers Test*
4. *Unit 3 - Expressions Test*
5. *Unit 4 - Equations Test*
6. *7th Grade- Equations & Inequalities Test*
7. *Unit 5 - Ratios Test*
8. *Unit 6 - Geometry Test*
9. *Unit 7 - Statistics Test*
10. *7th Grade- Geometry Test*

### Grading Procedures:

#### Homework:

- Homework will be checked daily for completion. Late homework will not be accepted for credit.

#### Tests/Quizzes:

- There will be a quiz on most Fridays. There will be a test given at the end of every unit. A study guide will be provided and corrected by students for each unit test. It is highly recommended to use this resource when studying.

**Grades will be determined by the following category weights:**

Category	Percentage
<i>Tests</i>	<i>50%</i>
<i>Quizzes</i>	<i>40%</i>
<i>Homework</i>	<i>10%</i>

**Online Resources:**

*Khan academy, Quizlet, TenMarks, XP Math, IXL.com, Learnzillion, Canvas*

I realize that teaching your child is a privilege as well as a tremendous responsibility. I will do my best to ensure that each student has a motivating and safe learning environment in the classroom. I ask that we are partners that help each other and your child in making this middle school transition a successful year.

I am looking forward to a wonderful and exciting year!

Syllabus is subject to change. You will be notified.