



# Math 6 Course Syllabus



## 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.

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

	<ul style="list-style-type: none"> <li>• <i>Order of Operations</i></li> </ul>	<ul style="list-style-type: none"> <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>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>Area on Coordinate Plane</i></li> <li>• <i>Volume - with Fractional Edges</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>Surface Area</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>

### Major Course Assessments

- *Unit 1 - Number Systems Part 1 Test*
- *Unit 2 - Number Systems Part 2 Test*
- *Unit 3 - Expressions Test*
- *Unit 4 - Equations Test*
- *Unit 5 - Ratios Test*
- *Unit 6 - Geometry Test*
- *Unit 7 - Statistics Test*
- *Culminating End of Year Project*

### 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.

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

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