

## 7<sup>th</sup> Grade Mathematics Syllabus

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### **Class Overview:**

7<sup>th</sup> grade math will have students involved in cooperative learning groups, independent work, performance and problem solving tasks; and assessment activities.

The Public Education Department Core Standards will be the guide for content covered in 7<sup>th</sup> grade math. The following is an overview of this content.

### **The Number System**

- Apply and extend previous understandings of operations with fractions to add, subtract, multiply, and divide rational numbers.

### **Expressions and Equations**

- Use properties of operations to generate equivalent expressions.
- Solve real-life and mathematical problems using numerical and algebraic expressions and equations.

### **Geometry**

- Draw, construct and describe geometrical figures and describe the relationships between them.
- Solve real-life and mathematical problems involving angle measure, area, surface area, and volume.

### **Ratios and Proportional Relationships**

- Analyze proportional relationships and use them to solve real-world and mathematical problems.

### **Statistics and Probability**

- Use random sampling to draw inferences about a population.
- Draw informal comparative inferences about two populations.
- Investigate chance processes and develop, use, and evaluate probability models.

### **Mathematical Practices**

1. Make sense of problems and persevere in solving them.
2. Reason abstractly and quantitatively.
3. Construct viable arguments and critique the reasoning of others.
4. Model with mathematics.
5. Use appropriate tools strategically.
6. Attend to precision.
7. Look for and make use of structure.
8. Look for and express regularity in repeated reasoning.

**Student Expectations:**

Students will be expected to have pencils (NO PENS), a composition notebook will be provided for their note taking, and they will be required to have a binder for this class. Students will be assigned a textbook to KEEP AT HOME so they will not have a textbook to carry home each night. They will be responsible for keeping all their math notes, worksheets, and assignments in their math binder. Students need to bring their composition book [notes] and binder to class daily. Homework will be given in this math class, so it will be the responsibility of students to complete the homework and be ready to turn it in or check homework at the beginning of each class.

**Make-up Work:**

Students will have the number of days they missed plus one day to turn in their work. The student is responsible to get their make-up work from the folders in the front of the classroom or on my teacher website.

**Classroom Rules and Expectations are covered extensively in the classroom brochure, for which both the student and parent/guardian will be provided a copy of, however, these 5 precepts are the basis of all classroom activities/expectations:**

1. Be Prompt
2. Be Prepared
3. Be Positive
4. Be Productive
5. Be Polite

**I have reviewed Mrs. Blackwell's 7<sup>th</sup> grade mathematics syllabus with my child. I understand the expectations for my child and myself. If at any time I have questions or concerns, I will contact Mrs. Blackwell by phone, or by e-mail. Please sign and return the syllabus to Ms. Blackwell. Students will be placing this syllabus in their math notebook for future reference.**

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

Student Signature: \_\_\_\_\_

Date: \_\_\_\_\_