

**7th Grade LS Math**  
**Mr. Kirsch**

**COURSE DESCRIPTION & OBJECTIVE:** Math 7 focuses on four critical areas: (1) developing and understanding of an applying proportional relationship; (2) operations with rational numbers and working with expressions and linear equations; (3) solving problems involving scale drawings, geometric constructions, surface area, and volume; and (4) drawing inferences about populations.

Students will practice taking notes, working independently and working in small groups. As the year progresses, students will apply their knowledge through various math projects and present them to the class.

**COURSE OUTLINE:**

- **Integers (Chapter 3):** mentally add, subtract, multiply and divide positive and negative numbers using a number line.
- **Rational Numbers (Chapter 4):** mentally add, subtract, multiply and divide positive and negative rational numbers using a number line.
- **Expressions (Chapter 5):** add and subtract linear expressions, as well as evaluate expressions using the distributive property.
- **Equations and Inequalities (Chapter 6):** solve equations and inequalities for the missing variable. Graph solutions to inequalities on a number line.
- **Ratios and Proportional Reasoning (Chapter 1):** compute unit rates and set up proportional relationships, as well as use a graph to represent a proportional relationship.
- **Percent's (Chapter 2):** solve for discounts, sales tax, markups and simple interest of bank loans and investments.
- **Geometric Figures (Chapter 7):** name and solve for triangles and angles in various figures.
- **Measure Figures (Chapter 8):** find the surface area and volume of two-dimensional and three-dimensional figures.
- **Probability and Statistics (Chapter 9 & 10):** gain information about a population and analyze the data; as well as, determine the chance of an event between 0 and 1.

**TEXTBOOK:** Glencoe Math Course 2, Volume 1 and 2.

## **DETERMINATION OF GRADES:**

### ✓ Tests/Quizzes -- 60%

There will be one test per chapter. Reviews will be given before the test and completed in class or as an assignment to be completed at home. These tests are used to represent a student's understanding of the chapter and will be completed in class only. Failing grades will not be re-tested. Approximately one to two quizzes per chapter. Quizzes will be given half way through a chapter and do not typically come with a review. They are meant to assess students' understanding halfway through the chapter. Quizzes will be completed in class only.

### ✓ In-class Assignments/Projects -- 30%

In-class assignments (ICA) will happen independently or with a partner to review class material. Projects will also be worked on in class, unless students need extra time to finish before the due date.

### ✓ Homework -- 10%

Homework will be given on average every night of the week. Homework will be assigned based on the notes taken in class that day. Homework will be listed on PowerSchool and my website through Canvas. Homework will be graded on completion. See student handbook on district homework policy.