

Mr. Gil Room 311

7/8 Grade Syllabus | Thomas J. Waters Elementary

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Objective:

Our class will work together to ensure that all students meet or exceed the Common Core State Standards in Mathematics for the 7th and 8th Grade. We will foster a safe and challenging learning environment that will encourage students to learn math, love math and live math for academic success.

Classroom Rules:

In conjunction with the School-wide Behavior Support, students will abide by these rules in the classroom.

- 1. Be the reason for someone's smile**
- 2. Be proud of yourself**
- 3. Plan for a better tomorrow**

Grades:

Classwork-25% (Turned in or checked at end of period)

Homework-10% (Assigned Daily except Fridays)

Summative Assessments-25% (Quizzes, short projects, classroom presentations)

Formative Assessments-40% (Tests, Unit Exams, Long term projects, research papers)

7th Grade Common Core State Standards:

First Semester: Introducing Algebra, Variables; representations of relationships including tables, graphs, words, and symbols, rates and ratios, making comparisons, proportional reasoning, expected value, understanding and modeling integers, integer operations, four-quadrant graphing,

Second Semester: Similar Figures, scale factors, basic similarity transformations and their algebraic rules, symmetries of designs, symmetry transformations;

8th Grade Common Core State Standards:

First Semester: Define, evaluate and compare functions, Use functions to model relationships between quantities, Understand the connections between proportional relationships, lines and linear equations, Understand congruence and similarity using physical models, transparencies, or geometry software, Understand and apply the Pythagorean Theorem.

Second Semester: Know that there are numbers that are not rational and approximate them by rational numbers, Work with radicals and integer exponents, Analyze and solve linear equations and pairs as well as pairs of simultaneous equations. Solve real-world and mathematical problems involving volume of cylinders, cones, and spheres, Investigate patterns of association in bivariate data, Adding and subtracting, and multiplying polynomials, Transform expressions and chunking (seeing parts of an expression as a single object).

