**YEAR LONG SYLLABUS**

**Course:** Math 7  **Instructor:** Ms. Widrick

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**Interims:** Sept. 21st**,** Dec 1st, Feb 22nd, May 9th **Report cards:** Oct 28th, Jan 26th, Apr 6th, June 8th

**STANDARDS OF LEARNING:**

**Number and Number Sense**

7.1 The student will a) investigate and describe the concept of negative exponents for powers of ten; b) compare and order numbers greater than zero written in scientific notation; c) compare and order rational numbers; d) determine square roots of perfect squares; and e) identify and describe absolute value of rational numbers. (1st 9 weeks)

**Computation and Estimation**

7.2 The student will solve practical problems involving operations with rational numbers. (1st 9 weeks)

7.3 The student will solve single-step and multistep practical problems, using proportional reasoning. (3rd 9 weeks)

**Measurement and Geometry**

7.4 The student will a) describe and determine the volume and surface area of rectangular prisms and cylinders; and b) solve problems, including practical problems involving the volume and surface area of rectangular prisms and cylinders.(3rd 9 weeks)

7.5 The student will solve problems, including practical problems, involving the relationship between corresponding sides and corresponding angles of similar quadrilaterals and triangles. (3rd 9 weeks)

7.6 The student will a) compare and contrast quadrilaterals based on their properties; and b) determine unknown side lengths or angle measures of quadrilaterals. (4th 9 weeks)

7.7 The student will apply translations and reflections of right triangles or rectangles in the coordinate plane.(4th 9 weeks)

**Probability and Statistics**

7.8 The student will a) determine the theoretical and experimental probabilities of an event; and b) investigate and describe the difference between the experimental probability and theoretical probability of an event. (3rd 9 weeks)

7.9 The student, given data in a practical situation, will a) represent data in a histogram; b) make observations and inferences about data represented in a histogram; and c) compare histograms with the same data represented in stem-and-leaf plots, line plots, and circle graphs. (3rd 9 weeks)

**Patterns, Functions, and Algebra**

7.10 The student will a) determine the slope, m, as rate of change in a proportional relationship between two quantities and write an equation in the form y = mx to represent the relationship; b) graph a line representing a proportional relationship between two quantities given the slope and an ordered pair, or given the equation in y = mx form where m represents the slope as rate of change; c) determine the y-intercept, b, in an additive relationship between two quantities and write an equation in the form y = x + b to represent the relationship; d) graph a line representing an additive relationship between two quantities given the y-intercept and an ordered pair, or given the equation in the form y = x + b, where b represents the y-intercept; and e) make connections between and among representations of a proportional or additive relationship between two quantities using verbal descriptions, tables, equations, and graphs. (2nd 9 weeks)

7.11 The student will evaluate algebraic expressions for given replacement values of the variables. (2nd 9 weeks)

7.12 The student will solve two-step linear equations in one variable, including practical problems that require the solution of a two-step linear equation in one variable. (2nd 9 weeks)

7.13 The student will solve one- and two-step linear inequalities in one variable, including practical problems, involving addition, subtraction, multiplication, and division, and graph the solution on a number line. (2nd 9 weeks)

***Grading Policy:***

Mastery of Content 60%:  Quizzes & Tests                                       -

Quizzes will be given periodically to review material covered throughout the week. There will be several tests each nine weeks, plus a nine weeks assessment.

Measure of Progress 40%: Classwork assignments will consist of in-class assignments, warm-ups, and exit tickets.  Homework assignments will be given as needed. .  Students are expected to attempt each problem with the work shown.

***Planning Period:* A:** 11:10-11:55, 12:25-1:10; **B:** 1:15-2:45

***Absent/Makeup work:***

It is the student’s responsibility to get all make-up work when they return to class.  A missed test or quiz will need to be scheduled with the teacher to be made up during school.

***Tardies:***

The tardy policy in the student handbook will be enforced.

***Class Procedures/Expectations:***

When students enter the classroom, they should have their agenda, binder, and mechanical pencils.  By the time the bell rings to start class, students should be seated and starting the warm-up.  Next, the daily lesson or activities will follow.  At the end of class, students will participate in a quick lesson review through discussion or an exit ticket.

***PLEASE KEEP THIS SYLLABUS IN THE FRONT OF YOUR BINDER FOR REFERENCE THROUGHOUT THE SCHOOL YEAR.***