



Grade 7 MATH SYLLABUS

Team Katahdin ~ Pelletier ~ 20-21 Quarter 3

Each trimester students will complete a wide array of mathematics units. Each unit explains the mathematical principles and reasoning which is covered in the student textbook. Students will be using a variety of resources to meet the daily learning targets including: Prentice Hall(Primary Text), Connected Mathematics, Khan Academy, Ready Common Core , NECAP Released items, etc. Each year will begin by pre-testing standards to be taught and will culminate with a post test of standards at the end of each unit.

Common Core Standards:

****Priority Standards: Focus for Quarter 3:**

Geometry (7.G.1, 7.G.2 , 7.G.3, 7.G.4, 7.G.5, 7.G.6)

- Draw, construct and describe geometrical figures and describe the relationships between them.
- Use the formulas for the area and circumference of a circle to solve problems
- Solve real-life and mathematical problems involving angle measure, area, surface area, and volume.
- Use facts about supplementary, complementary, vertical, and adjacent angles in a multi-step problem to write and solve simple equations for an unknown angle in a figure.

Ratios and Proportional Relationships (7.RP .1, 7.RP .2, 7.RP .3)

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

Recognize and represent proportional relationships between quantities.

Use proportional relationships to solve multi-step ratio and percent problems.

Solve problems involving scale drawings of geometric figures including actual lengths and areas from a scale drawing and reproducing a scale drawing at a different scale.

Expressions and Equations (EE.1, EE.2, EE.3, EE.4) COMPLETED

- **Use properties of operations to generate equivalent expressions.**
- **Rewrite an expression in different forms in a problem context in order to shed light on the problem and how the quantities in it are related.**
- **Solve real-life and mathematical problems using numerical and algebraic expressions and equations.**
- **Use variables to represent quantities in a real-world or mathematical problem, and construct simple equations and inequalities to solve problems by reasoning about the quantities.**

The Number System (6.NS.1, 6.NS.2, 6.NS.3) COMPLETED

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

***Solve problems involving the four operations with rational numbers in everyday life.**

(7.SP.1, 7.SP.2, 7.SP.3, 7.SP.4, 7.SP .5, 7.SP .6, 7.SP .7, 7.SP .8)

- **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.

Statistics and Probability

(7.SP.1, 7.SP.2, 7.SP.3, 7.SP.4, 7.SP .5, 7.SP .6, 7.SP .7, 7.SP .8) COMING SOON~ Quarter 4

- 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.

Class Structure and Grading:

Class work/Homework 40%

Assessment 40%

Notebook/Vocabulary 10%

Khan Academy 10%

Work Expectations:

It is exceptionally important that students use their daily class-time wisely. They should come to class with all necessary materials. Students are expected to turn work in on the day it is due. If a student can not meet a due date, the student should talk to the teacher before the work is due. Unexcused, late work will not be accepted and will result in a grade of "50"/NC . If a student misses school he or she should seek out the missed work as soon as they return to school and talk to the teacher about when the missed work will be due. Students will have assigned classwork/ homework from the teacher and will also have Khan Academy expectations/goals which are to be completed weekly(Due each Friday).