

8<sup>th</sup> Grade Math Syllabus  
3rd Nine Weeks

This syllabus consists of a tentative plan that the students will be engaged in for the 1<sup>st</sup> Nine Weeks. The purpose of the syllabus is to inform students and parents of the objectives that will be taught, and what is expected from each student. The objectives are in essence, the Alabama Course of Study (ACOS).

**STUDENTS WILL APPLY/PRACTICE ARMT OBJECTIVES ACTIVITIES WEEKLY UNTIL TESTING**

**Week 1**

**The students will:**

- Review problems on solving equations with grouping symbols
- Ratio and Proportions
- Surface area and volume
- ARMT Objectives Review (Multiple Choice and Gridding)

**Week 2**

**The students will:**

- Solve inequalities by adding and subtracting
- Solve inequalities by multiplying and dividing
- Solve multi-step inequalities
- ARMT Objectives Review

**Week 3**

**The students will:**

- Review mixed problems on Surface area, Volume, inequalities
- ARMT Objectives Review
- Study Guide
- **1<sup>st</sup> Major Test**

**Week 4**

**The students will:**

- Solve problems involving linear functions
- Identify from information in tables, set of ordered pairs
- Identify functions from equations, graphs, and mapping
- ARMT Objectives Review

**Week 5**

**The students will:**

- Graph linear functions by plotting points
- Graph linear functions by using the slope and y-intercepts
- Determine slope and y-intercepts of lines
- ARMT Objectives Review

**Week 6**

**The students will:**

- Continue with linear functions by determining the rules that define a function
- Classify variables in a function as independent or dependent and linear or non-linear
- ARMT Objectives Review
- Study Guide
- **2nd Major Test**

### Week 7

#### The students will:

- Solve multi-step equations, including equations requiring the use of the distributive property
- Review Surface area and volume of solid figures
- Review formulas for determining surface area and volume of rectangular prisms, cylinders and pyramids
- ARMT Objectives Review

### Week 8

#### The students will:

- Solve problems using real numbers and right triangles
- Solve problems using similar triangles and indirect measurements
- Apply proportional reasoning
- ARMT Objectives Review

### Week 9

#### The students will:

- Find the ratios of the perimeters and areas of similar triangles, trapezoids, and parallelograms
- Determine the measures of special angle pairs, including adjacent, vertical, supplementary, and complementary angles
- Determine the measures of angles formed by parallel lines cut by a transversal
- ARMT Objectives Review
- Study Guide
- 3<sup>rd</sup> Major Test (Final Test)

Grades are determined by the following:

Class assignment – 20% Major Test – 30 % Pop Quizzes – 10% Group activities – 10%

Homework – 5% Projects – 15%

Binder - 10%; Totaling 100%. Percentage is converted into points:

#### Example below

To average final grade, find average (mean) of each section of accumulated activities listed and multiply results by (parts/points) for that activity

• Class Assignment	$80 \cdot 2 =$	160
• Major Test	$65 \cdot 3 =$	195
• Pop Quizzes	$75 \cdot 1 =$	75
• Group activities	$100 \cdot 1 =$	100
• Homework	$100 \cdot .5 =$	50
• Project	$90 \cdot 1.5 =$	135
• Binder	$100 \cdot \frac{1}{10} =$	<u>100</u>
	10 parts	815

4. Find the mean of all points to determine Final Grade:

$$160 + 195 + 75 + 100 + 50 + 135 + 100 = 815$$

$$815 \div 10 = 81.5 \quad \text{Final score } 82$$