Topic 3 Outline - ALGEBRA 1/ HONORS

**LINEAR FUNCTIONS, EQUATIONS, AND INEQUALITIES**

**10/12 – Thursday – Section 5.1 – Understanding Linear Fuctions (MAFS.912.F-LE.1.1b,2.5,1.2) &**

**Section 5.2 – Using Intercepts (MAFS.912.F-IF.3.7a)**

**Essential Question:** What is a linear function? How can you identify and use intercepts in linear relationships?

**Vocabulary:** Linear Functions, Linear Equation, Standard Form, Solution of Linear Equation, discrete function, continuous function, y intercept, x intercept

**Classwork:** Evaluate pg. 205-208 # 1- 6, 7, 8, 14, 17, 18 Online book

Evaluate pg. 215-218 #1-18 all Online book

**Home Learning:** Complete section 5.1 & 5.2

**10/13 - Friday – Section 5.3 – Interpreting Rate of Change and Slope (MAFS.912.F-IF.2.6)**

**Essential Question:** How can you relate rate of change and slope in linear relationships?

**Vocabulary:** rate of change, rise, run, slope, slope formula

**Classwork:** Evaluate pg. 227-229 #1-18 all Online book

**Home Learning:** Complete section 5.3

**10/16-10/17 – Monday/Tuesday – Section 6.1 – Slope Intercept Form (MAFS.912.F-IF.3.7a)**

**Essential Questions:** How can you represent a linear function in a way that reveals its slope and y-intercept?

**Vocabulary:** slope intercept form, slope formula

**Classwork:** Evaluate pg. 244-248 # 2,3,4,5,9,10,11,14,16,17,20,23,24,26 Online book

**Home Learning:** Complete section 6.1

**10/18 - Wednesday - Section 6.2 Point Slope Form (MAFS.912.A-REI.4.10)**

**Essential Questions:** How can you represent a linear function in a way that reveals its slope and a point on its graph?

**Vocabulary:** point slope form

**Classwork:** Evaluate pg. 255-259 # 2,4,5,6,10,14,16,21 Online book

**Home Learning:** Complete section 6.2

**10/19 – 10/20 Thursday/Friday – Section 6.3 – Standard Form (MAFS.912.A-CED.1.2)**

**Essential Question:** How can you write a linear equation in standard form given properties of the line including its slope, and points on the line?

**Vocabulary:** Standard Form

**Classwork:** Evaluate pg. 265-267 #2-5, 6-10, 17,18,20 Online book

**Home Learning:** Complete section 6.3

**10/23 Monday – Section 6.4 – Transforming Linear Functions (MAFS.912.F-BF.2.3)**

**Essential Question:** What are the ways in which you can transform the graph of a linear function?

**Vocabulary:** family function, parent function, parameter

**Classwork:** Evaluate pg. 274-277 # 1,3,4-6,7-10, 17 Online book

**Home Learning:** Complete section 6.4

**10/24 - 10/25 – 10/26 Tuesday/Wednesday/Thursday – Section 6.5 – Comparing Properties of Linear Functions (MAFS.912.F-IF.3.9)**

**Essential Question:** How can you compare linear functions that are represented in different ways?

**Vocabulary:** None

**Classwork:** Evaluate pg. 287-293 # 1-20 all Online book

**Home Learning:** Complete section 6.5