Topic 1 Outline Lesson Plan - MCR

**THE REAL NUMBER SYSTEM**

**STANDARDS:**

**MAFS.7.NS.1.1, MAFS.7.NS.1.2, MAFS.8.NS.1.1, MAFS.8.NS.1.2, MAFS.912.A-SSE.1.1, MAFS.912.A-SSE.1.2, MAFS.912.A-SSE.2.3, MAFS.912.N-RN.2.3**

**8/21 – 8/22 Monday/Tuesday – Section 1.1 – Fractions pg.2**

**Essential Question:** How do you use fractions in the Real World?

**Vocabulary:** natural numbers, whole numbers, fractions, proper fractions, improper fractions, factors, mixed numbers, product, prime, composite numbers, prime factors, basic principal of fractions, lowest term, greatest common factors, reciprocal, quotient, least common denominator (LCD), difference, sum, circle graph, pie chart

**Classwork:** pg.10-13 # 4, 8, 12, 16, 20, 24, 28, 32, 36, 40, 44, 48, 52, 56, 60, 64, 68, 72, 76, 80, 84, 88, 92

**Home Learning:** Complete unfinished classwork

**8/23 – 8/24 Wednesday/Thursday – Section 1.2 – Exponents, Order of Operations, Inequalities pg.15**

**Essential Question:** How can you use exponents, order of operations, and inequalities in the Real World?

**Vocabulary:** exponents, power, base, exponential expression, grouping symbols, order of operations, inequalities

**Classwork:** pg.19 # 5,10,15,20,25,30,35,40,45,50,55,60,65,70,75,80,85,90,95,100

**Home Learning:** Complete unfinished classwork

**8/25 – 8/28 Friday/Monday – Section 1.3 – Variables, Expressions, and Equations pg.22**

**Essential Question:** How to evaluate Algebraic expressions and Equations?

**Vocabulary:** variable, Algebraic Expression, Equation, Solve, Solutions, Set, Elements, Braces

**Classwork:** pg.26 # 5,10,15,20,25,30,35,40,45,50,55,60,65,70,75,80,85

**Home Learning:** Complete unfinished classwork

**8/29 – 8/30 Tuesday/Wednesday – Section 1.4 – Real Numbers and the Number Line pg.28**

**Essential Question:** How can you create a number line using real numbers?

**Vocabulary:** natural numbers, whole numbers, number line, opposite, integers, sign numbers, rational numbers, set builder notations, graph, coordinate, irrational numbers, real numbers, additive inverse, absolute value

**Classwork:** pg.34 # 5,10,15,20,25,30,35,40,45,50,55,60,65,70,75,80

**Home Learning:** Complete unfinished classwork

**8/31 – 9/1 Thursday/Friday – Section 1.5 – Adding and Subtracting Real Numbers pg.37**

**Essential Question:** How can you Add and Subtract Real Numbers?

**Vocabulary:** sum, difference, minuend, subtrahend

**Classwork:** pg.44 # 10,20,30,40,50,60,70,80,90,100,110,120,130

**Home Learning:** Complete unfinished classwork

**9/5 – 9/6 Tuesday/Wednesday – Section 1.6 – Multiplying Real Numbers pg.49**

**Essential Question:** How can you multiply real numbers?

**Vocabulary:** Product, factor, quotient, reciprocal, dividend, divisor, denominator

**Classwork:** pg.56 # 10,20,30,40,50,60,70,80,90,100,110,120,130

**Home Learning:** Complete unfinished classwork

**9/7 – 9/8 Thursday/Friday – Section 1.7 – Properties of Real Numbers pg.60**

**Essential Question:** How can you identify properties of real numbers?

**Vocabulary:** commutative property, associative property, identity property, additive identity, multiplicative identity, inverse property, distributive property

**Classwork:** pg.67 # 5,10,15,20,25,30,35,40,45,50,55,60,65,70,75,80,85, 90

**Home Learning:** Complete unfinished classwork

**9/11 – 9/12 Monday/Tuesday – Section 1.8 – Simplifying Expressions pg.69**

**Essential Question:** How can you simplify expressions?

**Vocabulary:** term, numerical coefficient, factors, combining like terms

**Classwork:** pg.72 # 5,10,15,20,25,30,35,40,45,50,55,60,65,70,75,80,85

**Home Learning:** Complete unfinished classwork

**9/13 Wednesday –** Test Review

**9/14 Thursday –** Topic 1 Assessment