Decision 1: Curriculum Map   Course: _____Math/ 5_____
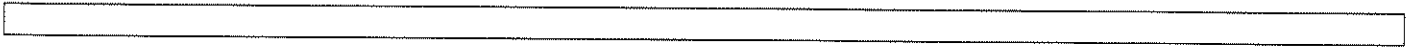
Topic: _____ **Number and Operations** _____

Key Learning: M05.A-F.1

Use equivalent fractions as a strategy to add and subtract fractions.

CC.2.1.5.C.1

Unit Essential Question:

How do we solve addition and subtraction problems involving fractions?

Assessment Anchor: M05.A-F.1.1.1 Concept: Add and subtract fractions (including mixed numbers) with unlike denominators. (May include multiple methods and representations.)	Concept:	Concept:
Essential Question(s): How do we add and subtract fractions with like and unlike denominators?	Essential Question(s):	Essential Question(s):
Vocabulary: Fraction proper fraction mixed number improper fraction numerator denominator greatest common factor (GCF) equivalent fraction	Vocabulary:	Vocabulary:

Concept:	Concept:	Concept:
Essential Question(s):	Essential Question(s):	Essential Question(s):
Vocabulary:	Vocabulary:	Vocabulary:

Additional Information:

Decision 1: Curriculum Map

Course: _____ Math/ 5 _____

Topic: _____ **Number and Operations** _____

Key Learning: M05.A-F.2

Apply and extend previous understands of multiplication and division to multiply and divide fractions.

CC.2.1.5.C.2

Unit Essential Question:

How do we solve multiplication and division problems involving fractions and whole numbers?

Assessment Anchor: M05.A-F.2.1.1 Concept:	Assessment Anchor: M05.A-F.2.1.1 Concept:	Assessment Anchor: M05.A-F.2.1.1 Concept:
Quotients with Remainders as Fractions	Multiply fraction (including mixed numbers) by a fraction.	Demonstrate an understanding of multiplication as scaling (resizing).
Essential Question(s): How do we solve word problems involving division of whole numbers that lead to answers containing fractions?	Essential Question(s): How do we multiply a fraction by a fraction?	Essential Question(s): How do we use multiplication of fractions to demonstrate scaling (resizing)?
Vocabulary: mixed numbers	Vocabulary: least common denominator (LCD)	Vocabulary: scale

Assessment Anchor: M05.A-4.2.1.4 Concept:	Concept:	Concept:
Divide unit fractions by whole numbers and whole numbers by unit fractions.		
Essential Question(s): What strategies are used for dividing fractions?	Essential Question(s):	Essential Question(s):
Vocabulary: reciprocal	Vocabulary:	Vocabulary:

Additional Information:

Topic: _____ Number and Operations in Base Ten _____

Key Learning: M05.A-T.1

Understand the place value system.

CC.2.1.5.B.1

Unit Essential Question:

How do we use place value of whole numbers and decimals to compare quantities or magnitudes of numbers?

Assessment Anchor: M05.A-T.1.1.1 Concept:	Assessment Anchor: M05.A-T.1.1.2 Concept:	Assessment Anchor: M05.A-T.1.1.3 Concept:
Demonstrate an understanding that in a multi-digit number, a digit in one place represents 1/10 of what it represents in the place to its left.	Explain patterns in the number of zeros of the product when multiplying a number by powers of 10, and explain patterns in the placement of the decimal point when a decimal is multiplied or divided by a power of 10. Use whole-number exponents to denote powers of 10.	Read and write decimals to thousandths using base-ten numerals, word form, and expanded form.
Essential Question(s): How do we know the place value of a digit in a given location?	Essential Question(s): How do we use patterns to show the placement of the decimal point when multiplied or divided by a power of 10?	Essential Question(s): How do we read and write decimal numbers in word and expanded form?
Vocabulary: place value, digit, whole number, period	Vocabulary: Exponent, decimal number, decimal point	Vocabulary: expanded notation, standard form, word form

Assessment Anchor: M05.A-T.1.1.4 Concept:	Assessment Anchor: M05.A-T.1.1.5 Concept:	Concept:
Compare two decimals to thousandths based on meanings of the digits in each place, using >, =, and < symbols.	Round decimals to any place (limit rounding to ones, tenths, hundredths, or thousandths place.)	
Essential Question(s): How do we compare and order decimal numbers?	Essential Question(s): How do we round decimal numbers?	Essential Question(s):
Vocabulary: comparison	Vocabulary: Tenths, hundredths, thousandths	Vocabulary:

Additional Information:

Topic: _____ __Operations and Algebraic Thinking__ _____

Key Learning: M05.B-O.1

Write and interpret numerical expressions.

CC2.2.5.A.1

Unit Essential Question:

How do we analyze and complete calculations by applying the order of operations?

Assessment Anchor: M05.B-O.1.1.1 Concept: Use multiple grouping symbols (parentheses, brackets, or braces) in numerical expressions, and evaluate expressions containing these symbols.	Assessment Anchor: M05.B-O.1.1.2 Concept: Write simple expressions that model calculations with numbers, and interpret numerical expressions without evaluating them. *Ex: "Add 8 and 7 then multiply by 2" as (8 + 7) x 2)*	Concept:
Essential Question(s): How does using grouping symbols (parentheses, brackets, or braces) change the value of the equation?	Essential Question(s): How do we interpret numerical expressions without evaluating them?	Essential Question(s):
Vocabulary: Order of operations PEMDAS	Vocabulary:	Vocabulary:

Additional Information:

Decision 1: Curriculum Map   Course: _____Math/5_____

Topic: _Operations and Algebraic Thinking_____

Key Learning: M05.B-0.2

Analyze patterns and relationships.

CC.2.2.5.A.4

Unit Essential Question:

How do we create, extend and analyze patterns?

Assessment Anchor: M05.B-0.2.1.1 Concept: Generate two separate numerical patterns using two given rules.	Assessment Anchor: M05.B-0.2.1.1 Concept: Identify apparent relationships between corresponding terms of two patterns with the same starting numbers that follow different rules.	Concept:
Essential Question(s): How do we generate two separate numerical patterns using two given rules? How are patterns completed and/or extended?	Essential Question(s): What is the process used to identify apparent relationships between corresponding terms of two patterns with the same starting numbers that follow different rules?	Essential Question(s):
Vocabulary: Pattern, element, rule, function, repetition, sequence	Vocabulary:	Vocabulary:

Additional Information:

Topic: Geometry _____

Key Learning: M05.C-G.1

Graph points on the coordinate plane to solve real-world and
mathematical problems.

CC.2.3.5.A.1

Unit Essential Question:

How do we identify parts of a coordinate grid, and describe or
interpret points given an ordered pair?

Assessment Anchor: M05.C-G.1.1.1 Concept:	Assessment Anchor: M05.C-G.1.1.2 Concept:	Concept:
Coordinate Plane and ordered pairs	Use plotted points to solve real world problems	
Essential Question(s): What are the steps used to identify parts of the coordinate plane (*x*-axis, *y*-axis, and the origin) and the ordered pair (*x*-coordinate and *y*-coordinate). Limit the coordinate plane to quadrant I.	Essential Question(s): How can we represent real-world and mathematical problems by plotting points in quadrant I of the coordinate plane, and interpret coordinate values of points in the context of the situation?	Essential Question(s):
Vocabulary: Coordinate Plane Ordered Pairs	Vocabulary:	Vocabulary:

Additional Information:

Topic: Geometry _____

Key Learning: M05.C-G.2
Classify two-dimensional figures into categories based on their properties.
CC.2.3.5.A.2

Unit Essential Question:
How do we use basic properties to classify two-dimensional figures?

Assessment Anchor: M05.C-G.2.1.1 Concept:	Concept:	Concept:
Classifying figures		
Essential Question(s):	**Essential Question(s):**	**Essential Question(s):**
What are the characteristics and properties of two-dimensional figures?		
Vocabulary:	**Vocabulary:**	**Vocabulary:**
Two-dimensional, plane, scalene, equilateral, isosceles, polygon, regular polygon		

Concept:	Concept:	Concept:
Essential Question(s):	**Essential Question(s):**	**Essential Question(s):**
Vocabulary:	**Vocabulary:**	**Vocabulary:**

Additional Information:

Decision 1: Curriculum Map   Course: _____Math/5_____

Topic: <u>Measurement and Data</u>

Key Learning: M05.D-M.1

Convert like measurement units within a given measurement system.

CC.2.4.5.A.1

Unit Essential Question:

How do we solve problems using simple conversions (may include multistep, real-world problems)?

Assessment Anchor: M05.D-M.1.1.1 Concept: Converting Measurement Units	Concept:	Concept:
Essential Question(s): How do we convert among different-sized measurement units within a given measurement system?	Essential Question(s):	Essential Question(s):
Vocabulary: Measurement system Metric system U.S. Customary Linear measurement	Vocabulary:	Vocabulary:

Additional Information:

Topic: Measurement and Data

Key Learning: M05.D-M.2

Represent and interpret data.

CC.2.4.5.A.2, CC.2.4.5.A.4

Unit Essential Question:

How do we organize, display, and answer questions based on data?

Assessment Anchor: M05.D-M.2.1.1 Concept:	Assessment Anchor: M05.D-M.2.1.2 Concept:	Assessment Anchor: M05.D-M.2.12 Concept:
Solve problems using fractions and a plot line	Display data on a given grid	Interpret Data
Essential Question(s):	Essential Question(s):	Essential Question(s):
What steps are used to solve problems involving computation of fractions by using information presented in line plots?	How do we display data using tallies, tables, charts, pictographs, bar graphs, and line graphs, and use a title, appropriate scale, and labels?	How can mean, median, range and mode be used to interpret data?
Vocabulary:	Vocabulary:	Vocabulary:
Line plots	Tallies, Charts, Tables, Pictographs, Bar graphs, line graphs, Scale, Title, Labels	

Additional Information:

Topic: _Measurement and Data_____

Key Learning: M05.D-M.3
Geometric measurement: understand concepts of volume and relate volume to multiplication and to addition.
CC.2.4.5.A.5

Unit Essential Question:
How do we use, describe, and develop procedures to solve problems involving volume?

Assessment Anchor: M05.D-M.3.1.1 Concept:	Assessment Anchor: M05.D-M.3.1.2 Concept:	Concept:
Applying formulas	Find volumes of solid figures	
Essential Question(s):	Essential Question(s):	Essential Question(s):
How do we apply the formulas $V = l \times w \times h$ and $V = B \times h$ for rectangular prisms to find volumes of right rectangular prisms with whole-number edge lengths in the context of solving real-world and mathematical problems?	What is the process to find volumes of solid figures composed of two non-overlapping right rectangular prisms?	
Vocabulary: Formulas Rectangular prisms Edges	Vocabulary: Volume	Vocabulary:

Additional Information: