Decision 1:	Curriculum Map	Cou
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Course: Math / 4

Key Learning: M04.A-T.1
Generalize place value understanding for multi-digit whole numbers.
CC.2.1.4.B.1

Unit Essential Question:

Additional Information:

How do I apply place-value and numeration concepts to compare, find equivalencies, and round?

Assessment Anchor: M04.A-T.1.1.1 Concept:	Assessment Anchor: M04.A-T.1.1.2 Concept:	Assessment Anchor: M04.A-T.1.1.3 Concept:
A digit in one place represents ten times what it represents in the place to its right.	Expanded, standard and word form through 1,000,000.	Compare two multi-digit numbers through 1,000,000 using >, =, and < symbols.
Essential Question(s):	Essential Question(s):	Essential Question(s):
How do I demonstrate that a digit in the ones places represents ten times what it represents to its right?	How do I read and write whole numbers in expanded, standard and word form through 1,000,000?	How do I compare two multi-digit numbers through 1,000,000 based on meanings of the digits in each place using comparison symbols?
Vocabulary:	Vocabulary:	Vocabulary:
Digit, Place value	Expanded, Standard, Word form	Comparison symbols
Assessment Anchor: M04.A-T.1.1.4		
Concept:	Concept:	Concept:
Round multi-digit whole numbers (through 1,000,000) to any place.		
Essential Question(s):	Essential Question(s):	Essential Question(s):
How do I round multi-digit whole numbers (through 1,000,000) to any place?		
Vocabulary: Round	Vocabulary:	Vocabulary:

Topic: Number and Operations in Bases Ten

Decision 1: Curriculum Map

Course: Math / 4

Topic:	Number Operations in Base Ter	1
Key Learning: M04.A-T.2		
Use place value understanding and prope perform multi-digit arithmetic?	rties of operations to	
CC.2.1.4.B.2		
Unit Essential Question:		`
How do I use operations to solve problem	s?	
Assessment Anchor: M04.A-T.1.2.1 Concept:	Assessment Anchor: M04.A-T.1.2.2 Concept:	Assessment Anchor: M04.A-T.1.2.3 Concept:
Add and Subtract Whole Numbers	Multiply whole digits	Divide whole digits
Essential Question(s):	Essential Question(s):	Essential Question(s):
How do I add and subtract multi-digit whole numbers?	How do I multiply a whole number of up to four digits by a one-digit whole number and multiply 2 two-digit numbers?	How do I divide up to four-digit dividends by a one-digit divisor with answers written as whole-number quotients and remainders?
Vocabulary:	Vocabulary:	Vocabulary:
Multi-digit, Whole numbers, Sum, Subtrahends, Addends, Minuend, Difference	Multiply, product	Divide, quotient, divisor, dividend, remainder
Assessment Anchor: M04.A-T.1.2.4 Concept:	Concept:	Concept:
Estimate operation problems		
Essential Question(s):	Essential Question(s):	Essential Question(s):
How do I estimate the answer to addition, subtraction, and multiplication problems using whole numbers through six digits (for multiplication, no more than 2 digits x 1 digit, excluding powers of 10?		
Vocabulary: Estimate	Vocabulary:	Vocabulary:
Additional Information:	1	

Use place value understanding and properties of operations to perform multi-digit arithmetic.

Topic: Number and Operations-Fractions

Key Learning: M04.A-F.1		
Extend understanding of fraction equival	ence and ordering.	
CC.2.1.4.C.1		
Unit Essential Question:		
How do I find equivalencies and compare	e fractions?	
Assessment Anchor: M04.A-F.1.1.1 Concept:	Assessment Anchor: M04.A-F.1.1.2 Concept:	Concept:
Recognize and generate equivalent fractions	Compare two fractions with different numerators and different denominators using the symbols >, =, or <, and justify the conclusions.	
Essential Question(s):	Essential Question(s):	Essential Question(s):
How do I recognize and generate equivalent fractions?	How do I compare two fractions with different numerators and different denominators using comparison symbols?	
Vocabulary:	Vocabulary:	Vocabulary:
Equivalent Fractions	Greater than > Less than < Equal to = Denominator Numerator Fraction, part of a whole	
Concept:	Concept:	Concept:
Essential Question(s):	Essential Question(s):	Essential Question(s):
Vocabulary:	Vocabulary:	Vocabulary:
Additional Information:		

Course:	Math / 4
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Topic:	Number Operations - Fractions

Key Learning: M04.A-F.2

Build fractions from unit fractions by applying and extending previous understandings of operations on whole numbers.

CC.2.1.4.C.2

Unit Essential Question:

How do I solve problems involving fractions and whole numbers (straight computation and word problems)?

Assessment Anchor: M04.A-F.2.1.1 Concept:	Assessment Anchor: M04.A-F.2.1.2 Concept:	Assessment Anchor: M04.A-F.2.1.3 Concept:
Add and Subtract Fractions	Decompose fractions	Add and subtract mixed numbers
Essential Question(s):	Essential Question(s):	Essential Question(s):
How do I add and subtract fractions with a common denominator of 2, 3, 4, 5, 6, 8, 10, 12, or 100?	How do I decompose fractions or mixed numbers into a sum of fractions with the same denominator?	How do I add and subtract mixed numbers with a common denominator of 2, 3, 4, 5, 6, 8, 10, 12, or 100?
Vocabulary:	Vocabulary:	Vocabulary:
Fraction, Denominator, Numerator, Fraction bar, Common denominator	Decompose, Mixed number	Mixed number, Common denominator
Assessment Anchor: M04.A-F.2.1.4 Concept:	Assessment Anchor: M04.A-F.2.1.5 Concept:	Assessment Anchor: M04.A-F.2.1.6 Concept:
Solve word problems by adding and subtracting fractions	Multiply a whole number by unit fraction	Multiply a whole number by a non-unit fraction
		Ex: 3 x (5/6) = 15/6
Essential Question(s):	Essential Question(s):	Essential Question(s):
How do I solve word problems involving addition and subtraction of fractions with denominators of 2, 3, 4, 5, 6, 8, 10, or 12?	How do I multiply a whole number by a unit fraction with denominators of 2, 3, 4, 5, 6, 8, 10, or 12?	How do I multiply a whole number by a non-unit fraction with denominators of 2, 3, 4, 5, 6, 8, 10, or 12?
Vocabulary:	Vocabulary:	Vocabulary:

Assessment Anchor: M04.A-F.2.1.7 Concept: Solve word problems by multiplying a whole number by a fraction	Concept:	Concept:
Essential Question(s): How do I solve word problems involving multiplying a whole number by a fraction with denominators of 2, 3, 4, 5, 6, 8, 10, or 12??	Essential Question(s):	Essential Question(s):
Vocabulary:	Vocabulary:	Vocabulary:

4 1 3 1 2 1	1 7 C	
Additiona	l Informatio	n·

Build fractions from unit fractions by applying and extending previous understandings of operations on whole numbers.

Vocabulary:

Topic:	Number and Operations
T ODYOR	indinoci ana operacions

Kev	Learning	z: M0	4.A-	F.3

Understand decimal notation for fractions, and compare decimal fractions.

CC.2.1.4.C.3

Unit Essential Question:

How do I use operations to solve problems involving decimals, including converting between fractions and decimals?

Assessment Anchor: M04.A-F.3.1.1 Concept:	Assessment Anchor: M04.A-F.3.1.2 Concept:	Assessment Anchor: M04.A-F.3.1.3 Concept:
Add two fractions with respective denominators 10 and 100. Ex: $3/10 = 30/100$; $3/10 + 4/100 = 34/100$	Use decimal notation for fractions with denominators 10 or 100. Ex: $6/10 = 0.6$	Compare two decimals to hundredths using the symbols >, =, or <, and justify the conclusions.
Essential Question(s):	Essential Question(s):	Essential Question(s):
How do I add two fractions with respective denominators 10 and 100?	How do I use decimal notation for fractions with denominators 10 or 100?	How do I compare two decimals to hundredths using the symbols >, =, or <, and justify my conclusions?
Vocabulary:	Vocabulary:	Vocabulary:
Respective, Denominators, Fractions	Decimal, Notation, Denominators	Compare, Hundredths, Tenths, Greater than, Less than, Equal to
Concept:	Concept:	Concept:
-	-	
Essential Question(s):	Essential Question(s):	Essential Question(s):

Auditional mitors:	nation:
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Vocabulary:

Connect decimal notation to fractions, and compare decimal fractions (base 10 denominator, e.g., 19/100)

Vocabulary:

Key Learning: M04.B-0.1

Represent and solve problems involving the four operations.

Course:	Math / 4
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Topic: Operations and Algebraic Thinking

Use the four operations with whole numb	ers to solve problems.	
CC.2.2.4.A.1		
OGDE, IKK		
Unit Essential Question:		
How do I use numbers and symbols to mo expressions and equations?	del the concepts of	
Assessment Anchor: M04.B-0.1.1.1 Concept:	Assessment Anchor: M04.B-0.1.1.2 Concept:	Assessment Anchor: M04.B-0.1.1.3 Concept:
Multiplication equation comparison	Multiply or divide solve word problems	Multi-step word problems with
		multiplication
Essential Question(s):	Essential Question(s):	Essential Question(s):
How do I interpret a multiplication equation as a comparison and represent verbal statements of multiplicative comparisons?	How do I multiply or divide to solve word problems involving multiplicative comparison?	How do I solve multi-step word problems posed with whole numbers using one of the four operations?
Vocabulary:	Vocabulary:	Vocabulary:
Comparisons Equation		Multi-step
Assessment Anchor: M04.B-0.1.1.4 Concept:	Concept:	Concept:
Identify correct comparison symbols		
Essential Question(s):	Essential Question(s):	Essential Question(s):
How do I identify the missing symbol that makes a number sentence true?		
Vocabulary:	Vocabulary:	Vocabulary:
Comparison symbols	•	•
Additional Information:		

Topic: Operations and Algebraic Thinking

Kev	Learning:	M04.B-0	1.2

Gain familiarity with factors and multiples.

CC.2.2.4.A.2

Unit Essential Question:

How do I develop and apply number theory concepts to represent numbers in various ways?

Assessment Anchor: M04.B-0.2.1.1 Concept:	Assessment Anchor: M04.B-0.2.1.2 Concept:	Assessment Anchor: M04.B-0.2.1.3 Concept:
Find all factor pairs for a whole number in the interval 1 through 100. Recognize that a whole number is a multiple of each of its factors.	Determine whether a given whole number in the interval 1 to 100 is a multiple of a given one-digit number.	Determine whether a given whole number in the interval 1 through 100 is prime or composite.
Essential Question(s):	Essential Question(s):	Essential Question(s):
How do I find all factor pairs for a whole number in the interval 1 through 100?	How do I determine whether a given whole number in the interval 1 to 100 is a multiple of a given one-digit number?	How do I determine whether a given whole number in the interval 1 through 100 is prime or composite?
Vocabulary:	Vocabulary:	Vocabulary:
Factor	Whole number	Whole number
Pairs	Interval	Interval
Whole number	One-digit number	Prime number
Interval	multiple	Composite number

Additional Information:

Develop and/or apply number theory concepts to find factors and multiples.

Course:	Math / 4

Topic: Operations and Algebraic Thinking

Key Learning: M04.B0.3		
Generate and analyze patterns.		
CC.2.2.4.A.4		
Unit Essential Question:		
How do I recognize, describe, extend, cre of patterns?	ate, and replicate a variety	
Assessment Anchor: M04.B-0.3.1.1 Concept:	Assessment Anchor: M04.B-0.3.1.2 Concept:	Assessment Anchor: M04.B-0.3.1.3 Concept:
Number and shape patterns	Function table elements	Find function table rules
Essential Question(s):	Essential Question(s):	Essential Question(s):
How do I generate a number or shape pattern that follows a given rule? How do I determine the missing elements in a function table?		How do I determine the rule for a function when given a table?
Vocabulary:	Vocabulary:	Vocabulary:
Shape pattern Rule	Function table Elements	
Concept:	Concept:	
concept.	Concept:	Concept:
Essential Question(s):	Essential Question(s):	Essential Question(s):
Vocabulary:	Vocabulary:	Vocabulary:
Additional Information:		
Generate and analyze patterns using one	rule.	

Course:	<u>Math</u>	/ 4
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Topic:	 Geometry

Key Learning: M04.C-G.1

Draw and identify lines and angles, and classify shapes by properties of their lines and angles.

CC.2.3.4.A.1, CC.2.3.4.A.2, CC.2.3.4.A.3

Unit Essential Question:

How do I list properties, classify, draw and identify geometric figures in two dimensions?

Assessment Anchor: M04.C-G.1.1.1 Concept:	Assessment Anchor: M04.C-G.1.1.2 Concept:	Assessment Anchor: M04.C-G.1.1.3 Concept:
Draw points, lines, line segments, rays, angles (right, obtuse, acute), and perpendicular and parallel lines. Identify these in two-dimensional figures.	Classify two-dimensional figures based on the presence or absence of parallel or perpendicular lines, or the presence or absence of angles of a specified size.	Recognize right triangles as a category, and identify right triangles.
Essential Question(s):	Essential Question(s):	Essential Question(s):
How do I draw points, lines, line segments, rays, angles (right, obtuse, acute), and perpendicular and parallel lines?	How do I classify two-dimensional figures based on the presence or absence of parallel or perpendicular lines, or the presence or absence of angles of a specified size?	How do I recognize right triangles as a category, and identify right triangles?
Vocabulary:	Vocabulary:	Vocabulary:
Points, Lines, Line segments, Rays, Angles (right, obtuse, acute), Perpendicular lines, Parallel lines Two-dimensional figures	Two-dimensional figures, Parallel lines Perpendicular lines, angles	Right triangles

Assessment Anchor: M04.C-G.1.1.4 Concept:	Assessment Anchor: M04.C-G.1.1.5 Concept:	Concept:
Recognize a line of symmetry for a two- dimensional figure as a line across the figure such that the figure can be folded along the line into mirroring parts.	Identify line-symmetric figures and draw lines of symmetry (up to two lines of symmetry).	
Essential Question(s): How do I recognize a line of symmetry	Essential Question(s): How do I Identify line-symmetric	Essential Question(s):
for a two-dimensional figure as a line across the figure such that the figure can be folded along the line into mirroring parts?	figures and draw lines of symmetry (up to two lines of symmetry)?	
Vocabulary:	Vocabulary:	Vocabulary:
Line of symmetry, Two-dimensional, figures, Line, Mirroring parts	Line-symmetric figures Lines of symmetry	
Additional Information:		

Decision	1.	Curriculum	Map
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Course:	Math / 4

Topic: Measurement and Data

Key	Learning:	M04.D-M.1

Solve problems involving measurement and conversion of measurements from a larger unit to a smaller unit.

CC.2.4.4.A.1

Unit Essential Question:

How do I solve problems involving length, weight (mass), liquid volume, time, area, and perimeter?

Assessment Anchor: M04.D-M.1.1.1 Concept:	Assessment Anchor: M04.D-M.1.1.2 Concept:	Assessment Anchor: M04.D-M.1.1.3 Concept:
Measurement Units	Solve word measurement word problems	Area and Perimeter formulas
Essential Question(s):	Essential Question(s):	Essential Question(s):
How do I know relative sizes of measurement units with standard units, metric units, and time?	How do I use the four operations to solve word problems involving distances, intervals of time, liquid volumes, masses of objects, money, and measurement conversions?	How do I apply the area and perimeter formulas for rectangles in real-world and mathematical problems?
Vocabulary:	Vocabulary:	Vocabulary:
Standard units, Metric units, Time, relative size	Volume, Mass, Converting measurements	Area, Perimeter, Formula
Assessment Anchor: M04.D-M.1.1.4 Concept:	Concept:	Concept:
Time as Minutes before an Hour		
Essential Question(s): How do I identify the analog or digital time as the amount of minutes before or	Essential Question(s):	Essential Question(s):
after the hour?		
Vocabulary:	Vocabulary:	Vocabulary:
Analog time, Digital time		

Additional Information:

Solve problems involving measurement and conversions from a larger unit to a smaller unit.

Decision 1: Curriculum Map

Course: Math / 4

Key Learning: M04.D-M.2			
Represent and interpret data			
CC.2.4.4.A.2, CC.2.4.4.A.4			
Unit Essential Question:			
How do I organize, display, and answer qu	nestions based on data?		
Assessment Anchor: M04.D-M.2.1.1 Concept:	Assessment Anchor: M04.D-M.2.1.3 Concept:	Assessment Anchor: M04.D-M.2.1.3 Concept:	
Make a line plot to display a data set of measurements in fractions of a unit (e.g. intervals of $\frac{1}{2}$, $\frac{1}{4}$, or $\frac{1}{8}$).	Solve problems involving addition and subtraction of fractions by using information presented in line plots (line plots must be labeled with common denominators, such as 1/4., 2/4, 3/4).	Translate information from one type of display to another (table, chart, bar graph, or pictograph).	
Essential Question(s):	Essential Question(s):	Essential Question(s):	
How do I make a line plot to display a data set of measurements in fractions of a unit?	How do I solve problems involving addition and subtraction of fractions by using information presented in line plots?	How do I translate information from one type of display to another?	
Vocabulary:	Vocabulary:	Vocabulary:	
Line plot, Data, Measurement, Fractions Unit, Intervals	Addition, Subtraction, Fractions, Line plot, Common denominator	Translate, Table, Chart, Bar graph Pictograph	
Concept:	Concept:	Concept:	
Essential Question(s):	Essential Question(s):	Essential Question(s):	
Vocabulary:	Vocabulary:	Vocabulary:	
Additional Information:			
Translate information from one type of data to another. Represent and interpret data involving fractions using information provided in a line plot.			

Topic: Measurement and Data

Decision 1: Curriculum Map

Key Learning: M04.D-M.3

Unit Essential Question:

determine angle measurements?

Assessment Anchor: M04.D-M.3.1.1

and create angles.

CC.2.4.4.A.6

Geometric measurement: understand concepts of angle; measure

How do I use appropriate tools and unites to sketch an angle and

Course: Math / 4 Topic: Measurement and Data Assessment Anchor: M04.D-M.3.2.1 Assessment Anchor: M04.D-M.3.1.3

Concept:	Concept:	Concept:
Measure angles in whole-number degrees using a protractor.	With the aid of a protractor, sketch angles of specified measure.	Solve addition and subtraction problems to find unknown angles on a diagram in real-world and mathematical problems. (Angles must be adjacent and non-overlapping).
Essential Question(s):	Essential Question(s):	Essential Question(s):
How do measure angles in whole- number degrees using a protractor?	With the aid of a protractor, how do I sketch angles of specified measure?	How do I solve addition and subtraction problems to find unknown angles on a diagram in real-world and mathematical problems?
Vocabulary:	Vocabulary:	Vocabulary:
Measure, Angle Degrees Protractor	Protractor, Angles	Addition, Subtraction, Angles, Diagram Real-world, Adjacent, Non-overlapping
Concept:	Concept:	
concept.	Concept.	Concept:
Essential Question(s):	Essential Question(s):	Essential Question(s):
Vocabulary:	Vocabulary:	Vocabulary:

Additional Information:

Measure angles and use properties of adjacent angles to solve problems.