Grade: 3 FCPS 2023-2024 Math Uni	it 4 Framework Unit 1 Unit 2 Unit 3 Unit 4
Unit 4 Understanding Fractions & Equivalence, Capacity & KY 3rd grade Math Standards Unit 4 framework good	Mass and 2D Shapes Ide link 3rd grade Priority Math Content & Prerequisite Skills
Unit 4 Title: Understanding Fractions & Equivalence, Capacity	& Mass and 2D Shapes Estimated Time Frame: 45 days
Essential Standards : 3.G.2, 3.NF.1, 2.NF.2, 3.NF.3 Supporting Sta	andards: 3.MD.4, 3.MD.2, 3.G.1
Big Idea(s) <u>CRA explanations for 3rd grade Unit 4</u>	
In real life, we encounter multiple meanings for fractions. Fra division, as a ratio, as a measure or as an operator. In real life, we estimate and measure weight, capacity, lengt <u>Fractions Progressions Document</u> <u>Geometry Progressions do</u>	ctions are used to describe parts of a whole or set, the result of h, mass, time, temperature, and area every day. <u>cument</u> <u>Measurement Progressions document</u>
Essential Question(s)	Common Preconceptions/Misconceptions:
 What are different interpretations of fractions? What are different ways to compare fractions? How can time, capacity, and mass be measured and found? How can 2-D shapes be analyzed, and classified? 	-Students may try to generalize what they know about whole numbers when comparing fractions and believe that fractions with a larger number in the denominator represent a greater value. -Many students develop a misconception that equal parts must be symmetrical. This misconception is further solidified when teachers teach symmetry in conjunction with fractions and may struggle with the idea that fractional parts are not always congruent as in the pictures of fourths below.

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	students are physically splitting an object equally to make fair shares help to develop an understanding of what a fraction is. -Students may struggle with placing fractions on a number line, especially when the number line goes beyond one whole. -When using a ruler, students may struggle with starting at zero instead of the edge of the ruler. Students may also use the incorrect unit if the ruler has both inches and centimeters marked. -Students have a common misconception that changing the orientation of an object changes what shape it is. Students will frequently refer to a rotated square as a diamond. Clarification needs to be ongoing (e.g., a square is a square regardless of its location in space: there is no plane figure called a diamond).
Standards for Mathematical Practice bolded practices are emphasized in this unit) Math Practice Standards Posters	Kentucky Interdisciplinary Literacy Practices (KILP)

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 MP.1. Make sense of problems and persevere in solving them. MP.2. Reason abstractly and quantitatively. MP.3. Construct viable arguments and critique the reasoning of others. MP.4. Model with mathematics. MP.5. Use appropriate tools strategically. MP.6. Attend to precision. MP.7. Look for and make use of structure. MP.8. Look for and express regularity in repeated reasoning. 	 Recognize that text is anythin message. Employ, develop, and refine create text. View literacy experiences as and transformational. Utilize receptive and express understand self, others, and the 5. Apply strategic practices, wi independently, to approach ne 6. Collaborate with others to cr Utilize digital resources to lead 8. Engage in specialized, discip 9. Apply high level cognitive precitically about text. 	ng that communicates a schema to understand and transactional, interdisciplinary ive language arts to better world. Ith scaffolding and then w literacy tasks. eate new meaning. arn and share with others. Dine specific literacy practices. rocesses to think deeply and
Eccoptial Standards:	Proroquisito Skills 9	
KAS Content Standards <u>CRA explanations for 3rd grade Unit 4</u>	Essential Vocabulary	Sample Success Criteria*

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KY.3.G.2 Partition shapes into parts with equal areas. Express the area of each part as a unit fraction of the whole. MP.2, M.5 Partitioned parts should be halves, thirds, fourths, sixths, eighths. Students partition a shape into 6 parts with equal areas and describe the area of each part as $\frac{1}{6}$ of the area of the shape. Coherence KY.2.G.3 KY.3.NF.1 \rightarrow KY.3.G.2	-Partition circles and rectangles into two, three, or four equal shares; describe the shares using the words halves, thirds, half of, a third of, etc.; and describe the whole as two halves, three thirds, four fourths. Recognize that equal shares of identical wholes need not have the same shape. Fraction Numerator Denominator Unit fraction Whole Partition	 I am learning to partition shapes into equal parts so I can break apart a whole into equal parts using halves, thirds, fourths, sixths, and eighths. I am learning to identify the unit fraction of a whole so I can show and describe part of the whole by identifying and representing the unit fraction.
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KY.3.NF.1 Understand a fraction $\frac{1}{b}$ as the quantity formed by 1 part when a whole is partitioned into b equal parts; understand a fraction $\frac{a}{b}$ as the quantity formed by a parts of size $\frac{1}{b}$. MP.2, MP.7 Students name parts of the whole using fractions and explain the fraction is made up of unit fractions. Students describe the numerator and the denominator using pictures, numbers and words. $\frac{4}{6} = \frac{1}{6} + \frac{1}{6} + \frac{1}{6} + \frac{1}{6}$ Note: grade 3 expectations in this domain are limited to fractions with denominators 2, 3, 4, 6 and 8. Coherence KY.2.G.3 \rightarrow KY.3.NF.1 \rightarrow KY.4.NF.3	Fraction Numerator Denominator Unit fraction Partition	 I am learning to identify parts of a whole using fractions and explain that the fraction is made up of unit fractions so I can create and use models and visuals to identify parts of a whole. I can describe the numerator using pictures, numbers and words. I can describe the denominator using pictures, numbers and words. I can create and use models and visuals to name fractions. I can show and explain how unit fractions make
KY.3.NF.2 Understand a fraction as a number on the number	-Represent whole numbers as	I am learning to partition a
line; represent fractions on a number line. a. Represent a fraction $\frac{1}{b}$ (unit fraction) on a number line by defining the interval from 0 to 1 as the whole and partitioning it into b	lengths from 0 on a number line with equally spaced points corresponding to the numbers 0, 1, 2, and	number line from 0 to 1 to represent fractions so • I can partition a number

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equal parts. Recognize each part has size $\frac{1}{b}$. a unit fraction, $\frac{1}{b}$ is located $\frac{1}{b}$ of a whole unit from 0 on the number line. b. Represent a non-unit fraction $\frac{a}{b}$ on a number line by marking off lengths of $\frac{1}{a}$ (unit fractions) from	represent whole-number sums and differences within 100 on a number line.	line into equal parts to show unit fractions (halves, thirds, fourths, sixths, and eighths.)
0. Recognize that the resulting interval has size $\frac{a}{b}$ and that its endpoint locates the non-unit fraction $\frac{a}{b}$ on the number line. MP.4	Unit fraction	 I can recognize each interval part as <u>1</u> I can represent a unit fraction on a number line.
one whole partitioned into 3 equal parts 0 each part has size $\frac{1}{3}$ 1 2 the number $\frac{1}{3}$ on the number line 0 1 2	Partition Non-unit fraction	 I can represent a non-unit fraction on a number line.
A lengths of $\frac{1}{3}$ starting from 0 interval of size $\frac{4}{3}$ on the number line Note: grade 3 expectations in this domain are limited to fractions with denominators 2, 3, 4, 6 and 8. Coherence KY.2.MD.6 \rightarrow KY.3.NF.2 \rightarrow KY.4.NF.3		
KY.3.NF.3 Explain equivalence of fractions in special cases and compare fractions by reasoning about their size. a. Understand two fractions as equivalent (equal) if they are the same size, or same point on a number line.	Equivalent Numerator	I am learning how to determine if two fractions are equivalent by reasoning about their size so I can identify if two



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fractions with denominators 2, 3, 4, 6 and 8.	
Coherence KY.3.NF.3, KY.4.NF.1 \rightarrow KY.4.NF.5	

Attending to the Standards for Mathematical Practice 3.NF

Students use the number line to reason about the relative size of a fraction (MP.4). They locate $\frac{5}{6}$ on a number line by accurately partitioning the line into 6 equal-length segments. They explain that $\frac{5}{6}$ means five segments that are each one-sixth of a unit in length, for example counting, "One-sixth, two-sixths, three-sixths, four-sixths, five-sixths." (MP.7). As they partition the line in other ways, they recognize three-sixths is half of the distance to 1 whole, as is $\frac{2}{4}$, $\frac{1}{2}$, and $\frac{4}{8}$, and reason these fractions are equivalent (MP.2). Similarly, they can generate other illustrations or justifications to explain why two fractions are equivalent or not (MP.3).

Supporting Standards:

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Attending to the Standards for Mathematical Practice 3.MD

Students understand the purpose of creating a graph is to make sense of data related to a question (MP.1). They look at the data they have collected and decide on how to set up a graph to best communicate the data (MP.6). Students determine if the scale on a dot plot should be in whole numbers, halves or fourths, based on the data gathered. For example, if they measured the length of each person's pencil to the nearest fourth inch, the related dot plot would be created using fourths (MP.6).

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KY.3.MD.2 Measure and solve problems involving mass and liquid volume.	Estimate	I am learning to measure and solve problems involving mass
a. Measure and estimate masses and liquid volumes of	Measure	and liquid volume so
objects using standard units of grams (g), kilograms (kg) and liters (L).	Mass	 I can estimate and measure masses in grams
problems involving masses or volumes that are given in the same units. Units. MP.1, MP.6	Liquid volume	(g) and kilograms (kg).I can estimate and
a Students have multiple expertunities to weigh classroom	Gram (g)	measure liquid volume in liters (L).
objects and fill containers to help them develop a basic understanding of the size and weight of a liter, a gram and	Kilogram (kg)	 I can use addition, subtraction, multiplication
a kilogram. b. See Table 2 in Appendix A. Coherence KY.2.MD.5→KY.3.MD.2→KY.4.MD.1	Liter (L)	and division to solve one-step word problems involving mass and volume.

Attending to the Standards for Mathematical Practice 3.MD

Students solve story situations using a model to support their reasoning (MP.4). For example, a student solves a task such as: you try to run for 15 minutes without stopping. When you look at the clock, the time is 2:52. What time will it say when you have reached 15 minutes? On an open number line, they show a jump from 2:52 to 3:00 as 8 minutes and then jump 7 minutes more to 3:07. Students estimate and then measure objects using standard units. For example, how many grams might balance with a selected item (MP.6)?

-Recognize and draw shapes	I am learning to classify polygons
having specified attributes,	into categories using their
such as a given number of	attributes so
angles or sides. Identify	 I can recognize and
	-Recognize and draw shapes having specified attributes, such as a given number of angles or sides. Identify

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b. Recognize and classify quadrilaterals (rectangles, squares, parallelograms, rhombuses, trapezoids) by side lengths and understanding shapes in different categories may share attributes and the shared attributes can define a larger category. c. Identify shapes that do not belong to a given category or subcategory. MP.6, MP.7 Students describe, analyze and compare properties of two-dimensional shapes. Coherence KY.2.G.1→KY.3.G.1→KY.4.G.2	triangles, quadrilaterals, pentagons, hexagons and cubes (identify number of faces). Classify Category Polygon Attribute Triangles Quadrilateral Pentagon Hexagon Rectangle Square Parallelogram Rhombus Trapezoid	 classify polygons based on numbers of sides and vertices. I can recognize and classify quadrilaterals by side lengths and angles. I can explain what different categories of quadrilaterals have in common. I can explain why a shape may fit into more than one category. I can identify shapes that do not belong to a given category and explain my reasoning.
	Rhombus Trapezoid Vertices	reasoning.

Attending to the Standards for Mathematical Practice 3.G.1

Students describe attributes they notice for a particular type of quadrilateral, focusing on side lengths and angles (MP.6). They explain what different types of quadrilaterals have in common and can distinguish between what are defining attributes (such as having four sides) and what are not defining (such as its size or color) (MP.3). Students use a variety of tools and drawings to show fractional parts (MP.5) and they reason if a shape is partitioned into four equal-sized parts (even if they are not the same shape), each part represents one-fourth of the whole shape (MP.2).

*Disclaimer: Success Criteria is the evidence students must produce to demonstrate learning. These examples are not comprehensive.

Practice Standards and Number Sense Resources:	
Mathematics Practice Standards, Games and Routines	2nd Semester Take-Home Games TheresaWills Games
(Introduced in the first week and used throughout the year)	EnVisionMathGames KDE Family Math Games
-Math Practices & Problem Solving Handbook	Investigations Math Words and Ideas Investigations Math Games
	<u>3rd_grade HomeLetters</u> <u>Word Wall Cards</u>
3rd grade number sense routines slides (VA) (use number	Problem Solving Organizer The Problem with Key Words
routines 5-10 minutes daily all year in addition to math class	Numberless Word Problem Examples Three Reads Strategy
time) Math Routines & Resources	
Additional: <u>Number Routines used 5-10 minutes daily all</u>	<u>3rd grade additional practice</u> <u>-2nd Semester Teaching Tools</u>
year (MD) <u>51 Esti-Mysteries</u> <u>Splat</u>	
	<u>3rd_grade Math FCPS Google Site of Resources</u>
Anchor Resources by enVision Topic	Supplemental Resources by Standard
Topic 12 – Understand Fractions as Numbers	3rd fractions folder 3rd fractions folder 2
Topic 12 – Understand Fractions as Numbers3.G.23.NF.13.NF.23.NF.33.MD.4 (Review 2 nd grade	3rd fractions folder3rd fractions folder 23.G.2: Partition a SquarePartition ShapesHalves, Thirds and Sixths
Topic 12 – Understand Fractions as Numbers3.G.23.NF.13.NF.23.NF.33.MD.4 (Review 2 nd gradeconcept of fractions)	 <u>3rd fractions folder</u> <u>3rd fractions folder 2</u> 3.G.2: <u>Partition a Square</u> <u>Partition Shapes</u> <u>Halves, Thirds and Sixths</u> <u>Folding Fractions with Patty Paper</u>
Topic 12 – Understand Fractions as Numbers3.G.23.NF.13.NF.23.NF.33.MD.4 (Review 2 nd gradeconcept of fractions)(approximately three weeks)	 <u>3rd fractions folder 3rd fractions folder 2</u> 3.G.2: Partition a Square Partition Shapes Halves, Thirds and Sixths Folding Fractions with Patty Paper 3.NF.1: Pattern Block Fractions, digital version Building rectangles
Topic 12 – Understand Fractions as Numbers 3.G.2 3.NF.1 3.NF.2 3.NF.3 3.MD.4 (Review 2 nd grade concept of fractions) (approximately three weeks)	3rd fractions folder3rd fractions folder 23.G.2: Partition a SquarePartition ShapesHalves, Thirds and SixthsFolding Fractions with Patty Paper3.NF.1: Pattern Block Fractions, digital versionBuilding rectangles(digital version)Fraction StripsCuisenaire Rods (digital version)
Topic 12 – Understand Fractions as Numbers3.G.23.NF.13.NF.23.NF.33.MD.4 (Review 2 nd gradeconcept of fractions)(approximately three weeks)Use Hands-On or Online Manipulatives: Variety of Fraction	3rd fractions folder3rd fractions folder 23.G.2: Partition a Square Partition ShapesHalves, Thirds and SixthsFolding Fractions with Patty Paper3.NF.1: Pattern Block Fractions, digital version Building rectangles(digital version)Fraction StripsCuisenaire Rods (digital version)3.NF.2: Fractions on a Number Line Match Up Fraction
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Topic 12 – Understand Fractions as Numbers3.G.23.NF.13.NF.23.NF.33.MD.4 (Review 2 nd gradeconcept of fractions)(approximately three weeks)Use Hands-On or Online Manipulatives: Variety of FractionPieces/Strips, Teaching Tools: Squares & Circles 15, 16-17,Number lines 7, rulersFractions Anchor Charts	 <u>3rd fractions folder</u> <u>3rd fractions folder 2</u> 3.G.2: <u>Partition a Square Partition Shapes</u> Halves, Thirds and Sixths Folding Fractions with Patty Paper 3.NF.1: <u>Pattern Block Fractions, digital version Building rectangles</u> (digital version) <u>Fraction Strips</u> <u>Cuisenaire Rods</u> (digital version) 3.NF.2: <u>Fractions on a Number Line Match Up Fraction</u> <u>Slow Reveal Fractions on a Number Line</u> <u>Fraction Matching 1</u> <u>Fraction Matching 2</u> <u>Fractions on a Number Line Closest to ½</u> <u>Find 1</u> <u>Find 1/4 Starting</u>
Topic 12 – Understand Fractions as Numbers3.G.23.NF.13.NF.23.NF.33.MD.4 (Review 2 nd gradeconcept of fractions)(approximately three weeks)Use Hands-On or Online Manipulatives: Variety of FractionPieces/Strips, Teaching Tools: Squares & Circles 15, 16-17,Number lines 7, rulersFractions Anchor ChartsFocus on Fractions number routines slides	 <u>3rd fractions folder</u> <u>3rd fractions folder 2</u> 3.G.2: <u>Partition a Square Partition Shapes</u> Halves, Thirds and Sixths Folding Fractions with Patty Paper 3.NF.1: <u>Pattern Block Fractions, digital version Building rectangles</u> (digital version)Fraction Strips <u>Cuisenaire Rods (digital version)</u> 3.NF.2: <u>Fractions on a Number Line Match Up Fraction</u> <u>Slow Reveal Fractions on a Number Line</u> <u>Fraction Matching 1</u> <u>Fraction Matching 2</u> <u>Fractions on a Number Line Closest to ½</u> Find 1 Find 1/4 Starting from 1 Find 1 Starting from 5/3 Find ²/₃ Find 7/4 starting from 1
Topic 12 – Understand Fractions as Numbers3.G.23.NF.13.NF.23.NF.33.MD.4 (Review 2 nd gradeconcept of fractions)(approximately three weeks)Use Hands-On or Online Manipulatives: Variety of FractionPieces/Strips, Teaching Tools: Squares & Circles 15, 16-17,Number lines 7, rulersFractions Anchor ChartsFocus on Fractions number routines slidesTopic 12 Review What You Know Prerequisite Skills	 3rd fractions folder 3rd fractions folder 2 3.G.2: Partition a Square Partition Shapes Halves, Thirds and Sixths Folding Fractions with Patty Paper 3.NF.1: Pattern Block Fractions, digital version Building rectangles (digital version) Fraction Strips Cuisenaire Rods (digital version) 3.NF.2: Fractions on a Number Line Match Up Fraction Slow Reveal Fractions on a Number Line Fraction Matching 1 Fraction Matching 2 Fractions on a Number Line Closest to ½ Find 1 Find 1/4 Starting from 1 Find 1 Starting from 5/3 Find ²/₃ Find 7/4 starting from 1 Locating Fractions Greater than One on the Number Line
Topic 12 – Understand Fractions as Numbers3.G.23.NF.13.NF.23.NF.33.MD.4 (Review 2 nd gradeconcept of fractions)(approximately three weeks)Use Hands-On or Online Manipulatives: Variety of FractionPieces/Strips, Teaching Tools: Squares & Circles 15, 16-17,Number lines 7, rulersFractions Anchor ChartsFocus on Fractions number routines slidesTopic 12 Review What You Know Prerequisite SkillsTopics 12, 13 & 14 Vocabulary Cards	 3rd fractions folder 3rd fractions folder 2 3.G.2: Partition a Square Partition Shapes Halves, Thirds and Sixths Folding Fractions with Patty Paper 3.NF.1: Pattern Block Fractions, digital version Building rectangles (digital version) Fraction Strips Cuisenaire Rods (digital version) 3.NF.2: Fractions on a Number Line Match Up Fraction Slow Reveal Fractions on a Number Line Fraction Matching 1 Fraction Matching 2 Fractions on a Number Line Closest to ½ Find 1 Find 1/4 Starting from 1 Find 1 Starting from 5/3 Find 3/3 Find 7/4 starting from 1 Locating Fractions Less than One on the Number Line
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** <u>KDE Lesson - Partitioning the Whole into Equal Shares</u> <u>**Mathigon FractionBars</u>	3.MD.4 <u>Ruler inch and centimeters for LZ – GeoGebra</u> <u>Measuring Strips Line Plot</u> (Measure items around room & make line plot)
Topic 13 – Fraction Equivalence and Comparison 3.NF.3(approximately three weeks)Use Hands-On or Online Manipulatives:Variety of Fraction Pieces/Fraction Strips, Teaching Tools:Squares & Circles 15, 16 17, Number line7, rulerTopic 13 Review What You Know Prerequisite Skills**Fractions on a Number Line - KDE Lesson - Fractions	Kendall Hunt Illustrative Math Fractions 3.NF.3: Literature Link: Gator Pie equivalent fractions Equivalent Fractions on a Geoboard Comparing Fractions 1 Comparing Fractions 2 Compare Fractions of a Whole_Halves, thirds, and sixths Representing Fractions on a Number Line Concept FAL Naming the Whole for a Fraction Mathigon FractionBars
Topic 14 – Solve Capacity, and Mass Problems 3.MD.2(Lesson 14-4 to 14-7 only)(approximately two weeks)Use Hands-On or Online Manipulatives:Variety of Measurement tools and containers, TeachingTools: Clock faces 20, Number lines 7Measurement Sample Anchor ChartsTopic 14 Review What You Know Prerequisite SkillsThe Orange (3 Act Task - 3.MD.2	3.MD.2: Kendall Hunt Illustrative Math Measurement Benchmark Lengths - Measurement Match benchmark pictures Benchmark Liquid Volume - Measurement Match Liquid Volume Measurement Sort (digital version) Measurement picture sort (digital version) Measurement Game GA Measurement Unit
Topic 15 – Attributes of 2-D Shapes 3.G.1 3.MD.5 (approximately one week) Use Hands-On or <u>Online Manipulatives</u> : Variety of Shapes (pattern blocks, shapes), quadrilaterals TT21, rulers <u>Geometry Anchor Charts</u> Topic 15 Review What You Know Prerequisite Skills	3.G.1: <u>Shape Match Geoboard Cards</u> Name the polygon on the geoboard (digital) Rectangle Sort Mathigon Shapes GA Geometry Unit <u>3rd grade geometry measurement folder</u>

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** <u>Attributes of Shapes - KDE Lesson Geometry</u>	Kendall Hunt Illustrative Math Geometry Attributes of Shapes Concept Card sort slides
Summative Assessment	
(Common Unit Assessment) This unit assessment will focus on concentual models of fractions to solve problems including	

(Common Unit Assessment) This unit assessment will focus on conceptual models of fractions to solve problems including fraction equivalence. It will also focus on time problems and attributes of 2D shapes.