



Kerry's Grade 9 Applied Fractions Planning Map

Key planning suggestions: Use the Fractions Learning Pathways (FLP) to support planning. Punctuate instruction (revisit and extend) with two to five lessons per month focusing on fractions concepts in order to develop and solidify ideas. Embed fractions throughout the curriculum to allow students opportunities to deepen understanding, by reinforcing and extending concepts over time.

Topic	Comparing Fractions		Working with Equivalence	
Week	week 1		week 2-3	
Concepts on FLP	Unit Fractions Comparing Fractions		Unit Fractions Comparing Fractions Operations: Addition and Subtraction	
Tasks (including extensions and revisits)	Assessment – informal diagnostic assessment	<ul style="list-style-type: none"> • Living Number Line (Unit A) • Counting Game (Unit D): emphasize fractional units and fractions as quantities that can be counted. • Comparing and Ordering Fractions Lesson (<i>from digital paper</i>) • Comparing Fractions Tasks (Comp A – E): select tasks that emphasize the use of the number line model. 	Assessment – formal diagnostic	<ul style="list-style-type: none"> • Desktop fractions (Unit B): emphasize the connection between number line and area models. • Brownie Sharing (Unit B): emphasize equi-partitioning. • Rod Bundle (Unit E, Comp B, Op C, Op E) • Building a Stage (Op D)
Opportunities to Connect Across Strands	Number Sense and Algebra		Measurement and Geometry	
			<ul style="list-style-type: none"> • area, perimeter, and volume 	

Topic	Operations with Fractions	Fractions as Ratios and Proportions
Week	week 4	week 5-8
Concepts on FLP	<p style="text-align: center;">Comparing Fractions Operations: Addition and Subtraction</p>	<p style="text-align: center;">Comparing Fractions Operations: Addition and Subtraction</p>
Tasks (including extensions and revisits)	<ul style="list-style-type: none"> • Recipe Task (Comp A) • OP Quick Prompts (Op A – E): select prompts to emphasize building models appropriate to the context (e.g., area models for brownies, volume models for strawberries, and number lines for banners). 	<ul style="list-style-type: none"> • Building Flags (Op B): emphasize equi-partitioning, the whole, equivalence, and fraction operations. • Generate as many representations for $\frac{2}{5}$ as possible: emphasize equivalence with set representations.
Opportunities to Connect Across Strands	<p>Measurement and Geometry</p> <ul style="list-style-type: none"> • composite figures and optimization 	<p>Number Sense and Algebra</p> <ul style="list-style-type: none"> • unit rate

Topic	Fractions as Rate	Fractional Thinking Supporting Algebra	Fractional Thinking Supporting Geometry
Week	week 9-12	week 13-15	week 15 - 17
Concepts on FLP	Comparing Fractions	Operations: Addition and Subtraction Operations: Multiplication and Division	Operations: Multiplication and Division
Tasks (including extensions and revisits)	<p style="writing-mode: vertical-rl; transform: rotate(180deg);">Assessment – use post test to determine areas of need</p> <ul style="list-style-type: none"> Slope of a Line (Comp E) emphasize ordering fractions in different contexts. 	<p><i>Continue to select tasks from cells based on assessment for learning information.</i></p> <p><i>Ensure that students have opportunities to solve prompts with and without contexts.</i></p> <p><i>Students will benefit from opportunities to visualize representations of operations.</i></p>	<p><i>Continue to select tasks from cells based on assessment for learning information.</i></p> <p><i>Embed fractional thinking to solve problems involving angle geometry (e.g., determine the measure of each angle in a regular octagon).</i></p>
Opportunities to Connect Across Strands	Analytic Geometry <ul style="list-style-type: none"> direct and partial variations finding the equation of a line 	Measurement and Geometry <ul style="list-style-type: none"> linking equation solving to measurement 	Number Sense and Algebra Geometry