Grade 5 Mathematics – Unit 3: Fractions Phoenixville Area School District

	Stage 1 Desired Results				
PA Core Standards:	Transfer				
CC.2.1.5.C.1 - Use the understanding of equivalency to add and subtract fractions. CC.2.1.5.C.2 - Apply and extend previous understandings of multiplication and division to multiply and divide fractions	 TRANSFER GOALS Students will be able to independently use their learning to • Number Sense: Develop a sound foundation to demonstrate the value of numbers by describing their various representations, relationships, and patterns. • Fluency: Demonstrate automatic recall of addition, subtraction, multiplication and division facts. • Problem-Solving: Persistently apply various problem-solving strategies and organized approaches to accurately understand and solve problems. • Mathematical Vocabulary: Interpret mathematical vocabulary and apply proper terminology to engage in meaningful oral and written expression that communicates mathematical thinking, problem-solving methods, and rationale. 				
	Meaning				
PSSA Assessment Anchors: M05.A-F.1.1 - Solve addition and subtraction problems involving fractions (straight computation or word problems). M05.A-F.2.1 - Solve multiplication and division problems involving fractions and whole numbers (straight computation or word problems).	 UNDERSTANDINGS Students will understand that Depending on the situation, problems may be solved using a variety of tools and strategies. Estimation helps determine the reasonableness of an answer. Mathematical ideas interconnect and build on one another to produce a coherent whole. Various mathematical representations are useful for problem solving and communicating a solution. 	 ESSENTIAL QUESTIONS Students will keep considering • How are the basic operations related to one another? How do numerical properties assist in computation? • What do effective problem solvers do, and what do they do when they get stuck? • What counts as an adequate solution? Does my answer make sense? 			
	Knowledge and Skills Acquisition				
	KNOWLEDGE Students will know	SKILLS Students will be skilled at			

•	Equivalent fractions can represent the same
	portion of the whole, and simplifying is one
	way to create an equivalent fraction

- Finding Least Common Denominator (LCD) and Greatest Common Factor (GCF) are necessary to create equivalent fractions
- Fractions are parts of a whole that can be added and subtracted
- Real-world situations can involve fractions and problem-solving strategies help us make sense of those situations
- Fractions can be multiplied and divided with other fractions and with whole numbers
- Mixed numbers are ways to represent wholes and parts, and they can be added/subtracted, and converted to improper fractions

VOCABULARY

- Equivalent Fraction
- Mixed Number
- Reciprocal
- Greatest Common Factor
- Least Common Multiple

- Creating equivalent fractions using multiplication and division with open-ended questions.
- Identifying LCD and GCF for the purposes of simplifying fractions and finding equivalent fractions.
- Performing operations involving fractions and whole numbers with open-ended questions.
- Solving real-world problems involving fractions using open-ended and constructed response questions.
- Converting fractions from improper form to mixed number form and vice versa.

Stage 2 – Evidence			
Code	Evaluative	Assessment Evidence	
A/M/T	Criteria		
		PERFORMANCE TASK(S)	Differentiation
M/T	What criteria will be used	Students will demonstrate understanding (meaning-making and transfer) through complex performance by	Considerations:
	in each assessment	Trip to Disneyland Performance Task (Addition/Subtraction of fractions only)	[Work on this section after
	to evaluate attainment	*High level of difficulty – use for enrichment or to determine score of "4"	

1	of the	Students will add and subtract fractions to determine amount of gas used, and a reasonable	completing Stages
	desired	schedule for visiting the attraction sites.	1-2 of all units]
	results?	 Goal: Your task is to figure out how much gas will be used for various parts of your journey to Disneyland. You will also figure out a schedule for visiting different attraction sites. 	
		Role/Audience: You are a traveler is California going to Disneyland.	
		Situation/Product: You will use fraction strategies (pictorial & equation) to demonstrate solution.	
		 Success Criteria: Your solutions and explanations are accurate and clearly represent the steps you took to answer each question. 	
		Math in Focus: Chapter 2 Performance Task M05.A-F.1.1	
		MIF Student Edition Pages 175-179	
		*Use problems 1-2 only for assessment, 3-4 for enrichment	
		Math in Focus: Chapter 3 Performance Task M05.A-F.2.1	
		MIF Student Edition Pages 283-286	
		 *Use problems 1-2 only for assessment, 3-4 for enrichment. (#3 on PT is similar to #12 on Canvas test) 	
	What criteria	OTHER EVIDENCE	Differentiation
/ V IVI	will be used		Considerations:
	in each	Unit Test A: MIF Ch 2 Fractions and Mixed Numbers for Standard M05.A-F.1.1	
	assessment	See Math in Focus Chapter 2 Test *Already created in Canvas	[Work on this
	to evaluate attainment	Multiple Choice	section after
	of the	Open-Ended Response	completing Stages
	desired results?	Constructed Response Prompts (TBD)	1-2 of all units]
'	resuits :	Unit Test A - MIF Chapter 2 Test Cover Sheet	
		• Used 2021-2022	
		Canvas Math in Focus Chapter 2 Test used 2020-2021	
		Search "Math in Focus: 5 th grade Chapter 2 Test"	
		Unit Test B: MIF Ch 3 Multiplying and Dividing Fractions and Mixed Numbers M05.A-F.2.1	

 See Math in Focus Chapter 3 Test *Already created in Canvas Multiple Choice Open-Ended Response Constructed Response Prompts (TBD)
Canvas Math in Focus Chapter 3 Test used 2020-2021 • Search "Math in Focus: 5 th grade Chapter 3 Test"