Math & Science Collaborative Lesson Plan



Lesson Title: Fractions – Equal Parts Of A Whole

Unit Learning Target (Standard/Performance Expectation(s))	3.3.A	С	CSSM 3.NF.1		
Represent fractions that have denominators of 2, 3, 4, 5, 6, 8, 9, 10, and 12 as parts of whole set or points on a number line					
Building Block or Lesson Learning Target: Identify, explain and demonstrate fraction equations that equal one. Previous Lesson Learning Target: Label fractional points on a number line.		Student Success Criteria: Successful grouping of fractions within family formats.			
Target Introduction/ Thinking Question * If you have ¼ of an object (circle, make a whole object? Is there more than one way to solve this question? Why? Lesson Progression (Flow) with Talk-Structures Pass out different number lines and ask the students to label each dot between zero and one. Remind the students to count the line segments and not just the dots! Pass out three long paper strips to each student. Ask each student to take one paper strip and fold it in half. Ask the students to write ½ beside the fold. Now ask them to fold the ½ paper in half again and label the new folds. Continue this process one or two more times. With a second paper strip, ask the students to fold this strip in thirds by making an "S" and folding it flat so all students have 3 equal parts between the folds. At this point the students can fold it in half, or fold it in thirds del-ending on what you want for the next outcome, 1/6ths or 1/9ths. With the third strip you can make 5 th s 10ths, fifteenths, etc. Ask the students to label each section so the students can also be practiced using square and/or rectangular paper.	square, recta Anticipated Misconcept Cutting wi measuring Key Terms Equal parts Halves, thi fifths, sixth ninths, tent	In Lesson: S rds, fourths, hs, eights, thout folding or	 many pieces or parts would it take to Formative Task or Question* Designed to elicit student misconception(s) What families of fractions do you know? (Half family, Third family, and Fifth family will address all the denominators in this target,) Can you name the members of any family? (1/2, ¼, 1/6, 1/8, 1/10, 1/12,) (1/3, 1/6, 1/9, 1/12,) (1/5, 1/10, 1/15, 1/20,) 		
Lesson Closure Explain the family connections between common fractions with denominators of 2, 3, 4, 5, 6, 8, 9, 10, and 12 with pictures, words and symbols			Exit Task* Label shaded fraction parts of different shapes		

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Do the Math for the Thinking Question		Anticipated Misconceptions:
1 fourth 1 fourth 1 fourth	1 fourth	between and not the spaces between.
	3/4	
Instructional Adjustment(s) (if needed) <i>Tied to common misconception(s)</i> Manipulatives and materials to include and have ready to supplesson *		nd have ready to support the
	Long, narrow paper strips Square Paper and Circle paper Number Lines for Fraction Families	
	Paper and Pencil	

* Opportunity for formative assessment