Lesson Plan Template

Grade: 6 (4	14 min)	Subject: Math	
Materials:	Pencil, paper	Technology Needed: Power point	
Instruction	al Strategies:	Guided Practices and Concrete Application:	
 Direct Guide Socrat Learni Lectur Techn Other 	instructionPeer teaching/collaboration/ cooperative learningd practicecooperative learningtic SeminarVisuals/Graphic organizersing CentersPBLreDiscussion/Debateology integrationModeling(list)Image: Construction of the second	 Large group activity Independent activity Pairing/collaboration Simulations/Scenarios Other (list) Explain: Hands-on Technology integration Imitation/Repeat/Mimic 	
Standard(s		Differentiation	
6 NS 1 Use visual fraction models and equations to		Below Proficiency:	
interpret and compute quotients of fractions. Use		Will be able to work with a peer and may help each other through	
metale and equations to colve word problems involving		the problems.	
models and equations to solve word problems involving		Above Proficiency:	
division of fractions by fractions.		Will be able to work at their own pace and ask questions if	
<u> </u>	<u></u>	needed.	
Objective(s)		Approaching/Emerging Proficiency:	
Students can multiply mixed numbers.		Modalities / earning Preferences:	
Students c	an multiply mixed numbers and simplify.	איטעמונוכא בכמו ווואך דו בוכו בוונכז.	
	· · · · · · · · · · · · · · · · · · ·		
Bloom's Taxonomy Cognitive Level:			
Solve, dem	nonstrate, calculate		
Classroom	Management- (grouping(s), movement/transitions, etc.)	Behavior Expectations- (systems, strategies, procedures specific to	
Students w	ill work with the person next to them to complete the	the lesson, rules and expectations, etc.)	
activity.		When working students are expected to be respectful of others and	
		work at a quiet voice level.	
Minutos	Drocoduros	1	
n	Set-up/Prep: Power point is made and projected on the bo	ard	
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5	5 Engage: (opening activity/ anticipatory Set – access prior learning / stimulate interest /generate questions, etc.) First, I want to start off by giving you a pre assessment. This will not be graded this is just for me to see where you are at and then your progress through the lesson. Multiply. Write the answer in simplest form. $\frac{1}{3} \times 2\frac{2}{3}$ $3\frac{1}{2} \times 5\frac{7}{10}$ Let's go over how to turn a mixed number into an improper fraction just to refresh your memory. Can anyone explain to me how we would turn this mixed number into an improper fraction: We need to multiply and then add. So, we would get $\frac{19}{3}$.		
20	Explain: (concepts, procedures, vocabulary, etc.)	have. First lat's look at multiplying mixed symphons and a fraction	
	So today we are going to talk about multiplying mixed numbers. First let's look at multiplying mixed numbers and a fraction. Strategy 1. Turn the mixed number into a improper fraction then multiply across and then simplify. Example 1. 2 d t a constant of the simplify.		
		x^2 , z^2 , z^2	
		2 3 2	
	Example 2.		
		1 8t1 9 36 -	
	$-\frac{1}{2} \times 2^{-1} + \frac{1}{2} = \frac{1}{2}$		
		9 4 '	
	Now I want you to try these two examples on your own.		

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	$2\frac{1}{5} \times \frac{1}{3} \cdot \frac{11}{5} = \frac{11}{15}$ $\frac{2}{5} \times \frac{2}{5}$	$\frac{3}{4} - \frac{15}{4} = \frac{50}{20} = \frac{1}{2} = \frac{1}{2}$	
	Strategy 2. Use the distributive property. Example 1.		
	$\frac{1}{2} \times 2\frac{3}{4}$ We can write $2\frac{3}{4}$ as the sum of $2 + \frac{3}{4}$. So now our equation looks like this $\frac{1}{2} \times \left(2 + \frac{3}{4}\right)$. We can now distribute		
	the $\frac{1}{2}$ inside the parenthesis like so, $\left(\frac{1}{2} \times 2 + \frac{1}{2} \times \frac{3}{4}\right)$. We can now multiple across which gives us,		
	$\frac{2}{2} + \frac{3}{8} = 1 + \frac{3}{8} = 1\frac{3}{8}.$ Example 2. (2) (2) (3) (4) (4) (5) (5) (5) (5) (5) (5) (5) (5) (5) (5		
	$\frac{3}{5} \times 2\frac{1}{6} = \frac{3}{5} \times \left(2 + \frac{1}{6}\right) = \left(\frac{2}{5} \times 2 + \frac{3}{5} \times 6\right) = \frac{1}{5} + \frac{3}{30} = \frac{3}{50} = \frac{3}{20} = \frac{3}{50} = \frac{3}{5$		
	Now try these examples on your own. $\frac{1}{2} \times \frac{201}{4} = \frac{21}{24} = \frac{21}{25} = \frac{1}{25} = \frac{2}{28} = \frac{2}{28}$		
	$4 \times 5 20 120 7 \times 4 28 100$ Let's look at a word problem.		
	School Bannor A hannor is made for a non-rally. What is the area of the hannor?		
	School Banner A banner is made for a pep raw. What is the area of the banner? $1 + \frac{1}{2} + \frac{1}{2} + \frac{1}{4} + \frac{1}{2} + \frac{1}{4} + \frac$		
	$O_{Kay now that we have gone though multiplying mixed numbers give me a thumbs up if you think hey. I've got this down. Give me$		
	a thumb to the side if you're doing okay but could use some extra practice. Give me a thumbs down if you have no idea what's going on		
15	Explore: (independent, concreate practice/application with relevant learning task -connections from content to real-life		
	experiences, reflective questions- probing or clarifying questions) Now we are going to do an activity with multiplying mixed number.		
	Here is the handout.		
	You're going to take a dice and role it three times, getting three numbers. You're going to write the numbers to fill in the blanks on the worksheet. Like this (I will roll the dice and get three numbers). I am going to put the smallest number on the top of the fraction and then I am going to pick where to put the other two numbers. I roll the dice again till all the blanks are filled. Then I am going to solve the problem. After to have completed the worksheet turn it into the basket.		
4	Review (wrap up and transition to next activity): If time I will give them the same question that were asked at the beginning of class to see their understanding on the lesson.		
Example Assessment: (linked to objectives)			
Progress monitoring throughout lesson- clarifying questions, Er		End of lesson:	
check-in strategies, etc.		If time I will have them go over the examples, they did at the beginning	
At the end of the lesson, I will ask the students to give me a thumbs of the		of the lesson to see where their comprehension is at.	
down I will	work with those students while they do their activity.	If applicable- overall unit, chapter, concept, etc.:	
Consideration for Back-up Plan: If the activity does not seem like it is working. I will continue to go over examples and we will work through them together.			

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Reflection (What went well? What did the students learn? How do you know? What changes would you make?): The lesson went well the students were engaged and participating during the lesson. The students were raising their hands and eager to answer the questions. One thing I would change would be not to go over the distributive property. Math 6 was having a hard time understanding it and I felt it was not needed for them to understand the objective and standards that go along with this lesson. I would have just wanted to go ver more examples of using strategy two which was turning the mixed numbers into an improper fraction. They enjoyed the dice activity as it gave them freedom to write their own problems and solve. My cooperating teacher also enjoyed the activity she used it for the rest of her math 6 classes the rest of the day with a little modification for it.

Activity

Roll the dice to fill in all the blanks.

Make sure the smallest number you roll is the numerator of the fraction!







