Grade: 7th		Subject: Math 7 <sup>th</sup> Grade
Materials: notes, worksheets		Technology Needed:
Instructional Strategies:         Direct instruction       Peer teaching/collaboration/         Guided practice       cooperative learning         Socratic Seminar       Visuals/Graphic organizers         Learning Centers       PBL         Lecture       Discussion/Debate         Technology integration       Modeling         Other (list)       Other (list)		Guided Practices and Concrete Application:         Large group activity       Hands-on         Independent activity       Technology integration         Pairing/collaboration       Imitation/Repeat/Mimic         Simulations/Scenarios       Other (list)         Explain:       Explain:
Standard(s): 7.NS. 2 Apply and extend previous understandings of multiplication, division, and fractions to multiply and divide rational numbers.		Differentiation Below Proficiency: Provide extra guided practice while the class is working on assignment
<b>Objective(s):</b> The learner will be able to decimal number and apply order of operations. <b>Bloom's Taxonomy Cognitive Level:</b>		Above Proficiency: Help their classmates around them that are confused. Approaching/Emerging Proficiency: Have student work with a partner in class to continue approaching proficiency. Modalities/Learning Preferences:
Classroom Management- (grouping(s), movement/transitions, etc.): proximity and withitness		Behavior Expectations- (systems, strategies, procedures specific to the lesson, rules and expectations, etc.) Students will be engaged in taking notes and answering/asking questions.
Minutes	Procedures	
	Set-up/Prep: Have notes and worksheets ready	
5	<ul> <li>Engage: (opening activity/ anticipatory Set – access prior learning / stimulate interest /generate questions, etc.) Have students review order of operations and multiplying fractions since it will be on their worksheet. Remind them of the rules for positive and negative signs.</li> <li>Example: (- 2/3)<sup>2</sup> -3/4 x (2 1/3) = -1 11/36</li> </ul>	
10	<ul> <li>Explain: (concepts, procedures, vocabulary, etc.) Model for students how to multiply decimals building off of what they know about multiplying integers. Explain how to determine how many decimal places are in the product. Also talk about order of operations when there is more than is addition/subtraction, exponents, and parentheses.</li> <li>Examples:</li> </ul>	
	3.59 x 7.87 = 28.2533 13.98 x 0.11 = 1.537	'8 4.75 x 11.15 = 52.9625 2(0.43) x 6.67 = 5.7362
	Focusing on Order of Operations:	
	2.55 + 6(0.05) = 2.85 7.73 x (2.2 x 2.8) =	47.6168
	9.45 <sup>2</sup> +11.71 = 101.0125 3(0.88 +4.14) <sup>2</sup>	- 2.64 = 68.9612
20	Explore: (independent, concreate practice/application wi experiences, reflective questions- probing or clarifying qu	th relevant learning task -connections from content to real-life lestions) Have students begin working on their worksheet.
5	<b>Review (wrap up and transition to next activity):</b> Have so fractions and decimals.	tudents explain similarities and differences in multiplying

Formative Assessment: (linked to objectives)	Summative Assessment (linked back to objectives)		
check- in strategies, etc.	Worksheet		
Walking around room while the students are doing the	WORSHEEL		
examples to check for understanding. Consideration for Back-up Plan: If students are not ready to multiply decimals, we will continue to practice fractions or review multiplying	If applicable- overall unit, chapter, concept, etc.:		
integers.			
Reflection (What went well? What did the students learn? How do you know? What changes would you make?):			
Today was the second day of multiplying rational numbers. The students definitely are more comfortable multiplying fractions than decimals.			
Overall, the students did good, but they struggled with where to place the decimal at the end. I think I spent too much time of the first two			
examples, so I didn't get through all of the examples, and they didn't have much time to work on their worksheets. I think next time I would do			
an example of just multiplying integers (without decimals) before trying to do an example with decimals first. The students seemed to have			
decimal at the end and would have made the other examples go a little faster			
uecimal at the end and would have made the other examples go a little raster.			

Multiplying Rational Numbers

1. $\frac{1}{8} \times \frac{5}{6} =$	10. 6.4 x 5.9 =
2. $\frac{3}{7} \times \frac{4}{5} =$	11. 9.2 x 1.6 =
3. $5\frac{3}{8} \times \frac{8}{9} =$	12. 4.21 x 6.1 =
4. $\frac{1}{2} \times 2\frac{6}{7} =$	13. 11.4 x 7.5 =
5. $\frac{4}{5} \times 4\frac{5}{9} =$	14. 2.6 x 3.72 =
6. $3\frac{1}{3} \times 2\frac{1}{5} =$	15. 14.84 x 2.84 =
7. $1\frac{3}{8} \times 3\frac{1}{3} =$	16. 9.92 x 4.54 =
	17. (-1.5) <sup>2</sup>
8. $\left(2\frac{1}{7}\right)^2 =$	18. 3.8 x 0.65 – 1.4 =
9. $-3\frac{2}{5} + \frac{2}{10} \times \frac{5}{6} =$	

19. A baker needs to make 8 batches of cookies for a party. If each batch requires 2 3/4 cups of flour, how many cups will he need?

20. The Science Club went to a history museum. It costs \$7.25 for an admission ticket. If 90 members went to the museum, what would the total cost be?