Grade: 7th		Subject: Advanced Math 7 <sup>th</sup> Grade
Materials: notes		Technology Needed:
Instructional Strategies:		Guided Practices and Concrete Application:
<ul> <li>Direct</li> <li>Guideo</li> <li>Socrati</li> <li>Learnir</li> <li>Lecture</li> <li>Techno</li> <li>Other (</li> </ul>	Instruction       Peer teaching/collaboration/         practice       cooperative learning         c Seminar       Visuals/Graphic organizers         ng Centers       PBL         Discussion/Debate       Discussion/Debate         ology integration       Modeling	<ul> <li>Large group activity</li> <li>Independent activity</li> <li>Pairing/collaboration</li> <li>Simulations/Scenarios</li> <li>Other (list)</li> <li>Explain:</li> <li>Hands-on</li> <li>Hands-on</li> <li>Initation/Repeat/Mimic</li> </ul>
		Differentiation
Standard(s): 7.RP.1 Compute unit rates associated with ratios of fractions, including ratios of lengths, areas and other quantities measured in like or different units.		Below Proficiency: Provide extra guided practice while the class is working on examples.
		Above Proficiency: Help their classmates around them
<b>Objective(s)</b> : The learner will be able to find unit rates		that are confused.
involving fractions and decimals and use unit rates to solve rate problems.		Approaching/Emerging Proficiency: Have student work with a partner in class to continue approaching proficiency.
Bloom's Taxonomy Cognitive Level:		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. Students will be on task during the online activity.
Minutes	Procedures	
	Set-up/Prep: create Kahoot activity online and prepare notes for class	
5	Engage: (opening activity/ anticipatory Set – access prior learning / stimulate interest /generate questions, etc.)	
	Briefly review what they have learned about rat	ios. Use an example to go into how to find unit rates. Use
	ratio table to introduce a unit rate?	
15	Explain: (concepts, procedures, vocabulary, etc.) Examples: 90 miles in 2.25 hours = $\frac{90 \text{ miles}}{2.25 \text{ hours}}$ = 15 miles/hr 40 apartments on 5 floors = $\frac{40 \text{ apt}}{40 \text{ apt}}$ = 8 apts / flr	
	• 16 laps in $4\frac{3}{4}$ days = $\frac{16 laps}{4\frac{3}{4} day}$ = $3\frac{16}{19}$ laps/day	
	Definitons:	
	A rate is a ratio of two quantities using a	different units.
	<ul> <li>A unit rate compares a quantity to one</li> </ul>	unit of another quantity
	<ul> <li>Equivalent rates have the same unit rat</li> </ul>	e.
	<ul> <li><u>Examples:</u></li> <li>Four gallons of gas cost \$12.80. What w \$3.20 per gallon</li> <li>A car traveled 480 miles in 8 hours. How 60 miles per hour</li> </ul>	as the price of gas per gallon? v many miles did the car travel per hour?
	• A baker baked 180 cookie in $3\frac{1}{3}$ batches	. How many cookies did the baker bake per batch?

	54 cookies per batch		
20	Explore: (independent, concreate practice/application with relevant learning task -connections from content to real-life experiences, reflective questions- probing or clarifying questions) Kahoot activity. INSERT URL FOR KAHOOT HERE. If we finish the activity early, they can begin working on their assignment.		
5	Review (wrap up and transition to next activity):		
	Ask students to summarize what rates are and how to find unit rates.		
Formative Assessment: (linked to objectives) Progress monitoring throughout lesson- clarifying questions, check- in strategies, etc. Examples in class and Kahoot activity. Consideration for Back-up Plan: If students aren't ready to solve unit rates, we can continue review ratios.		Summative Assessment (linked back to objectives) End of lesson: Homework assignment. If applicable- overall unit, chapter, concept, etc.:	
Reflection (	What went well? What did the students learn? How do yo	u know? What changes would you make?):	

Examples: Find the unit rates of the following

90 miles in 2.25 hours

40 apartments on 5 floors

16 laps in  $4\frac{3}{4}$  days

**Definitons:** 

- A<u>rate</u> is a ratio of \_\_\_\_\_\_

Applications:

Four gallons of gas cost \$12.80. What was the price of gas per gallon?

A car traveled 480 miles in 8 hours. How many miles did the car travel per hour?

A baker baked 180 cookies in  $3\frac{1}{3}$  batches. How many cookies did the baker bake per batch?