TPA Lesson Plan

Your lesson plan should not exceed <u>four</u> pages.

If you refer to a text, worksheet, slides or whiteboard images, make a copy to include for reviewer. These extra items should not exceed <u>five</u>

pages.

Subject	7th grade - Algebra			
Standard	STANDARD 7.2.4.2 Solve equations resulting from proportional relationships in various contexts.			
Central Focus	To provide experience looking at proportional relationships in real-world			
	examples and solving equations for these real-world situations			
Academic Language	Proportional: having a constant ratio to another quantity			
Objective(s)	SWBAT solve equations from proportional relationships.			
Instructional Resources	<u>Number Neighborhood Game</u>			
	 https://www.teacherspayteachers.com/Product/Mario-Kart-Proportion-Word- Problems-for-Distance-Learning-4934694 			
	 MarioKart Video: https://www.youtube.com/watch?v=SPt87tB32GE Cuisenaire Rods 			

Lesson Part

Anticipatory Set	 "Hello. I am so happy you are here in class with us today. How is everyone feeling? It is almost the weekend!" I want to check in with my students as the week is more than half over. To start class today, we are going to play Number Neighborhood: Directions Students are going to play this game with their neighbor, the person sitting next to them and they each need a colored pencil or marker. They should be different colors. We will play for about 15 minutes. This game gets them working with someone who they may not know as well because it is not their choice, but rather just the person they are sitting next to. Also, it is fun and engaging, but still makes them think mathematically and competitively.
Procedure	 "Can anyone tell me what we have been learning about this week?" I hope to get answers like, proportions, unit rate, writing and solving equations for proportions. This just reminds students what our goal is and what we are continuing to learn. "I know you all are too young to drive a car, but have any of you played MarioKart?" Show clip: https://www.youtube.com/watch?v=SPt87tB32GE "Well, today we are going to use MarioKart to help us solve some proportions." I want students to have a resource available to them while they work on their assignment, so we are going to create a cheat sheet for this unit. They will design their own MarioKart race track, but somewhere on their track they must include the following: definition of unit rate, synonym for unit rate (constant of proportionality), definition of proportional, explanation of how we know something is proportional (I want to see that they mention it has a constant of proportionality and when graphed, forms a straight line), and an example of a proportional relationship (how they write this can be up to them; as an equation, a table, a graph, a word problem, a proportion as fractions)

	On the back of the cheat sheet, students are required to show that they can			
	on the back of the cheat street, state and the quine at the street and the street,			
	solve their example and prove that their answer is correct. How can you			
	convince me your answer makes sense?			
	For students who struggle to complete this cheat sheet, I can have pre-			
	made ones available and rather than completing it entirely by themselves,			
	they can have blanks on it to fill in			
	This cheat sheet has to be checked by me and if it is correct, they will			
	receive the worksheet that follows (this ensures that students have the			
	correct information on their cheat sheet)			
	Students will complete this worksheet individually:			
	https://www.teacherspayteachers.com/Product/Mario-Kart-Proportion-Word-Problems-			
	for-Distance-Learning-4934694			
	 For students who are exceeding, I will challenge them to complete the 			
	worksheet without referencing their cheat sheet			
	Their only assignment will be to finish any problems on the worksheet that			
	did not get done in class.			
Assessment	** include rubric**			
	Informal Assessment: By checking student's definitions and examples on their cheat			
	sheet, I will have a clear understanding of where each student is at.			
	ones, in the real section and entering of the real section and			
	Verbal Exit Ticket: Also, at the end of the day, having students verbally explain to			
	me one thing they each learned will help me understand if they have a grasp of the			
	topic or not.			
Closure	I want to review one last time what was learned this week. I will call on kids			
Closure				
	and have them each tell me one thing they have learned. If there are			
	duplicates, I will ask if they can come up with another thing but won't stress			
	about it too much because it is a fairly short unit. This is essentially their			
	exit ticket for the day.			
	"Tomorrow, we are going to put together everything we learned this week			
	to complete a fun activity. Your ticket into class tomorrow is your completed			
	MarioKart worksheet." I will tell students that they must have a ticket to			
	get into class tomorrow, because it is a clue for what our fun Friday will			
	look like.			
Accommodations	If any of the language on the worksheet could be an issue, I will rewrite some of the			
	questions using language that could be better understood.			
	Also, I will have cuisenaire rods and other manipulatives available to students who			
1	still feel the need to use them.			
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Rubric

1	2	3	4
SWBAT	SWBAT	SWBAT	SWBAT

Identify a	Write equations from	Solve equations from	Draw conclusions from
proportional	proportional	proportional	proportional
relationship	relationships	relationships	relationships