PEMDAS REVIEW JEOPARDY

Materials: Whiteboard, markers, paper, and pencil Technology Needed: Smartboard Instructional Strategies: Guided Practices and Constraints				
Instructional Stratogics	Technology Needed: Smartboard			
instructional strategies.				
Direct instruction Peer teaching/collaboration/ Large group activity Hands-on				
Guided practice Cooperative learning				
Socratic Seminar Visuals/Graphic organizers				
Learning Centers PBL Simulations/Scenarios				
Lecture Discussion/Debate Other (list)				
Technology integration Modeling Explain:				
Other (list)				
Standard(s) Differentiation				
5.OA.1 Use parentheses, brackets, or braces in numerical Below Proficiency: Have the student have a partner who help	S			
expressions, and evaluate expressions with these them if needed, while they write the answer on the whiteboa	rd.			
symbols.	**			
5.0A.2 Write simple expressions that record calculations	ne v of			
with numbers. Interpret numerical expressions without the class is confused	01			
evaluating them				
Approaching/Emerging Proficiency: Use the whiteboard to sh	low			
Chiesting(a) their work in order to solve the problem.				
Objective(s)				
Modalities/Learning Preferences: Visual, Tactile, and logical,	and			
By the end of the lesson, the learner will be able to apply groups				
their knowledge about the order of operations (PEMDAS)				
to the given equations and be able to solve the problem,				
in the proper order, to get the right answer.				
Bloom's Taxonomy Cognitive Level: Application				
Classroom Management- (grouping(s), movement/transitions, etc.) Behavior Expectations- (systems, strategies, procedures specific t	0			
Have the number on the table and number the students off to put the lesson, rules, and expectations, etc.)				
them in groups. Have each group be at one table. Have all the The student will work together as a team and include a	all			
students work through the math while the main, writer at that time members.				
puts their work on the whiteboard. Use the whiteboard to see the				
they know the answer				
Minutes Procedures				
Set-up/Prep:				
Pull up pre-made PEMDAS review game onto the smart board so that it is ready to go when needed. Have a				
white heard on each table for each group, with dry erase marker and comothing to erase the answers				
white board on each table for each group, with dry erase marker and something to erase the answers.				
Engage: (opening activity/ anticipatory Set – access prior learning/stimulate interest /generate questions, etc.)				
 Ask the students to turn and talk to their neighbors about what the order of operations is. Prompt them to look at the board to review PEMDAS. 				
			Ask someone to share what PEIVIDAS IS.	
			 After reviewing what the order of operations is work through a problem on the board together a 	is a
class to help recall the rules of PEMDAS while solving equations.				
Explain: (concepts, procedures, vocabulary, etc.)				
As a review of the material that the students learned about the order of operations and in preparation for				
the test play the review game Jeopardy.	the test play the review game Jeopardy.			
10 min 1. Split the students up into teams based on their table groups. Move students if needed in order t	о			
have fair and productive groups.				
2. Inform the students of the rules for this particular game				
Even team has a whiteheard and a dry areas mericar.	d			
EVERY TEAM HAS a WRITEBOARD and a dry prace marver. NTHOENTS MUST SHOW THEIR WORK and	u			

	 Each student needs to take a turn writing on the whiteboard. Other teammates can work through the problems on scratch paper and help work through the problem together. The first group to raise the board up in the air, with the correct answer wins the points and gets to pick the next question. (One team can only pick twice in a row then it moves on to the next group clockwise.) When picking the questions, the students will pick a category and then a dollar price, all of which will be on the Smartboard. DAILY DOUBLE: the team who picks daily double will have the opportunity to request the amount of money that they want to win. The amount cannot be higher than the amount that the group has. At this time on only the team who picked the daily double can answer the question and receive the points. If they get the answer right they get all the points that they asked for. If they get the answer wrong then the team loses all the points that they want to bet. After this, the final jeopardy question will be read to the students. Here the students will have to add their bet to their current total and the students will the right answer will have to subtract their bet number from their current total, to reveal the winner. After this give the students time to ask any questions that they might have about the rules. Play the game! 			
20 min	 Explore: (independent, concrete practice/application with relevant learning task -connections from content to real-life experiences, reflective questions- probing or clarifying questions) After the students have an understanding of what is expected from them for the game and they understand the rules it is time to play the game. The teacher will go through the PowerPoint, as the students direct. If there any problems that all, or majority of the groups, get wrong go over them on the board as a class. 			
2 min	Review (wrap up and transition to next activity):After the students have completed the game and added up all their points, review what the order of operations are. Afterwards, if there is the time the students can study for their Math test that they will have on Friday. Remind them that they will have to do problems like these on their math test. OR the students can do AR reading before the transition to the other class.			
Formative Assessment: (linked to objectives) Progress monitoring throughout lesson- clarifying questions, check- in strategies, etc.		Summative Assessment (linked back to objectives) End of the lesson: The students will be assessed on their abilities to use PEMDAS in with the order of operations at the end of the unit with the unit test that		
The students will be checked throughout jeopardy with the work and answers that they show on the whiteboard.		they are reviewing for with this lesson.		
Consideration for Backup Plan:				
As a backup plan, the students can also be assessed through the review worksheet.				
Reflection (What went well? What did the students learn? How do you know? What changes would you make?):				
Things that went well: Overall, I was really impressed with how the students responded to this lesson. It was nice that I was able to spend two days, previous to have				

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taught this lesson, working with the kids while they did their math review form their books. I know that being able to have them come and ask me questions about where they were struggling really helped me to prepare a lesson and a review game that triggered area where they needed

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some extra help. Also, the students really responded to the jeopardy game. It helped keep them focused and excited about what we were learning in class. It was fast enough to keep them involved but one to fast that they didn't know what was going on or get behind. Having the students take turns writing the answer. This was to make sure that everyone was participating in the activity and not just relying on other members of the team to do the work. In all, the lesson went well. It flowed through from beginning to end and the students were able to stay on task throughout the whole time.

Considerations for next time:

A few different areas that I would work on or change if I teach these again are a few simple changes. First, I would try and allow more time at the end for the students to be able to work out the final jeopardy problem. I feel like the students hurrying and therefore did not pay close attention to the questions. Also, maybe have a worksheet for the students to take home with all the problems so that they can work on the questions is they wanted to. Especially the ones that they got wrong or did not understand. Also, I would make sure to keep better track if the students were really taking turns with who was writing the answer on the board. Finally, I would have all the students write out the answer for the final jeopardy question/problem and tell them that that problem is their exit slip. The last question is a combination of all the different areas of PEMDAS and it is really important that the students are able to get this problem. Therefore, it is nice to see their work and have a better understanding of what the students needed before the test.

Final thoughts: I was really happy with how this lesson went and how the students responded to the lesson. The students were engaged throughout the lesson and they were good at participating and trying their hardest. By the end of the lesson, the students left the classroom not frustrated or upset about their math but with better understanding and excitement.