Lesson Plan Template Date: October 14th

Grade: 5th	1		Subject: Math					
	Whiteboards, Paper,	pencils	Technology Needed:					
	al Strategies:		Guided Practices and Concrete Application:					
Guide Socrat		Peer teaching/collaboration/ cooperative learning Visuals/Graphic organizers PBL Discussion/Debate <mark>Modeling</mark>	Large group activity Independent activity Pairing/collaboration Simulations/Scenarios Other (list) Explain:	Hands-on Technology integration Imitation/Repeat/Mimic				
Standard 5.NBT.5 Fluently multiply multi-digit whole numbers using strategies flexibly, including the standard algorithm. Objective By the end of the lesson, students will remember and apply the steps of the standard algorithm Bloom's Taxonomy Cognitive Level: Remember, Understand, Apply Classroom Management- (grouping(s), movement/transitions, etc.) "I'm going to give you the privilege of choosing your partner for this activity. But, if you cannot work together or stay on task, you will lose that privilege. You may work alone or in groups of 2 or 3. No more than 3. You are allowed to" • During Transitions, voices should be at a level 0 • Use "I need your eyes open, listening ears on, and minds ready to think," to prepare for the conversation • "If you can hear my voice, put your hand on your head" • When conversations get too loud, go silent and wait for recognition, as last resort.			Universal Design for Learning Below Proficiency: Provide lots of modeling, guided practice, and individual help during independent work Above Proficiency: Opportunity to share thinking with class, will be given harder problems if they need to be challenged. Modalities/Learning Preferences: • Visual: Board writing • Auditory: Discussion • Kinesthetic: Flexible seating • Tactile : Whiteboards and writing Behavior Expectations- (procedures/expectations specific to the lesson, rules and expectations, etc.) • Voice level 0 when I am talking • No Blurting • Voice Level 2 discussion with pods • Raise your hands to share your ideas					
	Set-up/Prep before	lesson:						
	 Engage: (opening activity/ anticipatory Set – access prior learning / stimulate interest /generate questions, etc.) Begin by accessing prior knowledge of multiplication strategies. Ask students to recall all the strategies Array Area Method Partial Product Method Do a practice problem with the students using the partial product method. Use 48 X453. Use a mixture of student responses and explicit instructions. Remind students that with this model, they are multiplying together the entire number represented in each place, not just the value. 							
			453 x 48 24 8 x 3 400 8 x 50 3,200 8 x 400 120 40 x 3 2,000 40 x 50 16,000 40 x 400 21,744					

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	Explain:	Explain: (teacher-led)										
	1.	 After going through the example using partial products, highlight how this method takes a lot of time, and a lot of t space on our paper. So today, we're going to learn a new multiplication method called the standard algorithm. Say "you're going to be using the very same set up and skills as the partial product method, it's just going to be a lot quicker and more condensed. " 										
	2.	Begin the Problem. State that the first step is to r place in the top problem. Explain carrying, conne										
	3. 4.	Work through each step with the students, Using Put extra emphasis on adding a zero to the secon				i.						
		Work through 1-2 more problems with them emp										
	1.	Have students use their whiteboards to work on Walk around while the students work on these puthrough things together.	learning task -connections from content to real-life experiences) n a few problems independently. problems, checking in on where students need guidance and working									
		At this point, students leave for specials, and come back for math block 2.										
	3. 4. 5. Closure	While students are gone, write 5 problems on the When they return, tell students, "At this time boy small groups. I'm going to give you the privilege of together or stay on task, you will lose that privile are allowed to move about the room, you can sit surface to write on. I'm going to give you about 1 onto your own sheet of paper. And once we're do their problems on the board as a while group. Throughout this process, check on groups, provid methods of multiplication, showing how similar to Once students are just about done working in group Discuss the answers and where the students mig Wrap up with a review on the important things to (wrap up and transition to next activity): Say "Alright students please put away your mate for instruction.	ys and gi of choosi ge. You r in any of 0 minute one, if we hing help this is to oups, invi ht have r o remem	Is I want ng your pa nay work the seati es to work have tim and guida the other te studen nade mist ber with t	to give yo artner for alone or ng or on f on these ne, I'll hav ince when methods ts to wor akes. the stand	ou a chanc this activ in groups the floor problems ve some co re needed they have k through ard algorit	e to practice ity. But, if yo of 2 or 3. No Just make su s on the boa onfident volu . Encourage used. their thinkin .hm.	ou cannot work o more than 3. You ure you have a good rd, just copy them unteers work through connection to prior ng on the board.				
 Formative Assessment: (linked to objective, during learning) Progress monitoring throughout lesson (document of student learning, data collection) 			Summative Assessment (linked back to standard, END of learning) 1. Multiplication Quiz Administered next week									
•	Diagnostic Asse administer a sh solve one probl This will give m this, identifying standard algorit with one way. T from.	 Will evaluate their knowledge of the standard algorithm through 2 by 2, and 2 by 3 multiplication problems. Directions of the Quiz will also include checking their answer using another method of their choice. This will provide data of their performance of the standard algorithm, their ability to flexibly use different methods to solve a problem, and their understanding of the relationships between the methods. The Quiz will only be 5 problems long. 										
•	Looking for and proper for how str aid in iden	e problem sheetDirections: Solve Each Problem using the Standard Algorithm. Use other multiplication method to check your answer.d proper place values. This Assessment will provide data r how students are performing during this lesson and will d in identifying trends in understandings and mistakes.Directions: Solve Each Problem using the Standard Algorithm. Use other multiplication method to check your answer.5672658454X 34x 14x 27x 65x 45Ill use to plan tomorrows lesson to hit on points of nfusion										

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Monitor students' responses and work on the board.
 Look for understanding of place value and carrying with thumb signals indicating comfort level. Use this to decide what time type of problem to model and when to move on.

Teacher Reflection (What went well? What did the students learn? How do you know? What changes would you make?):

This lesson was the first math lesson I ever taught. Something as important and vital as the standard algorithm was an ambitious start I'll admit. But, overall it was majorly successful. I modeled how to do the standard algorithm on a familiar problem. However, after this problem I drastically altered me approach. I saw the need for boosting morale and confidence with this new material by showing them the connections between the standard algorithm and the methods they already know. I walked through the same problem 3 times, using all different methods. Each time I pointed out the similarities in processes and numbers left in the end to add up. By the time we got to the standard algorithm, the students were familiar with the math and were able to see the connections between this and other methods. I Told them that this proves that even though this is new and overwhelming, they already know it, and they proved it with the other methods.

After this, their confidence shot up and I was able to walk them through a bunch more examples with them. They go to the point where I was able to collect data through my formal assessment of them working on problems in groups. They really made the connection between the standard algorithm and partial product methods especially. I even overheard conversations between students pointing out connections and similarities between the different methods they used to each other.

I have this habit of relying on heavy engagement, bells and whistles, and cheesiness to hold their attention and get them excited. But in this lesson, I feel like I finally found my footing on getting and keeping them engaged just by myself, what I said, and how I said it. If I had to change anything I would offer more opportunity for collaborative learning. This group in particular really takes their thinking further on their own and I think they would've really done well given more opportunities to do it during this lesson.