Lesson Plan Template Date: 2/4/19

Grade: 2		Subject: Math: 2-Digit Subtraction Practice	
Materials:	4 Mini Whiteboards, Fraction Anchor chart, Base-10	Technology Needed: Smartboard Interactive Worksheet	
Manipulati	ves (Blocks)		
Instruction	al Strategies:	Guided Practices and Concrete Application:	
	Instruction	Large group activity Hands-on	
Socrat	ic Seminar Visuals/Graphic organizers	Independent activity Technology integration	
Learni	ng Centers 🗌 PBL	Pairing/collaboration Imitation/Repeat/Mimic Simulations/Sconarios	
Lectur	e Discussion/Debate	 Simulations/Scenarios Other (list) 	
Technology	ology integration 🗌 Modeling	Explain:	
Other	(list)		
Standard(s)		Differentiation	
2.NB1.5- Use strategies based on place value, properties of operations and/or the relationship between addition and subtraction		manipulatives for all of the problems they do on their own. Use	
to fluently add and subtract within 100.		in the skit.	
2.OA.2- Use	e mental strategies to fluently add and subtract within 20.		
Objective(s)		Above Proficiency: Only do a few problems with base-10	
Students will be able to determine which strategy to use by using		manipulatives.	
actions and sayings for the rules and performing a skit by the end of the lesson		Approaching/Emerging Proficiency: Use manipulatives for the	
By the end of the lesson, students will be able to explain how they got		first half and try to do the second half without.	
their answe	er to the addition and subtraction problems by using base-		
10 manipulatives.		Modalities/Learning Preferences: Visual-Spatial, Verbal-	
By the end of the lesson, students will be able to solve a combination		Linguistic, Logical-Mathematical, Bodily-kinesthetic,	
of addition and subtraction problems using mental strategies by		interpersonal, intrapersonal.	
rules.			
Bloom's Ta	xonomy Cognitive Level: Evaluating, Applying		
Classroom	Management- (grouping(s), movement/transitions, etc.)	Behavior Expectations- (systems, strategies, procedures specific to the	
If students need to come to the front of the room to see, they will		lesson, rules, and expectations, etc.)	
students sh	ould be spread out, so they are not tempted to mess	students should raise their hand if they have a question. Students	
around with others. Students will do the actions together with me		seriously so the others can learn from it without being distracted. The	
when we ar	re going over the rules. These actions should be done the	students that are not doing the skit should give the other students	
right way w	ith no messing around, so it is a learning tool for the	their full attention and encourage them. All students are expected to	
students to	remember their rules. When students are coming to the	participate and follow along. When we are going through the rules	
they can se	e skit, the peers on the floor will be asked to move back so	together, the students will use a level 2 voice. Students should not be	
student is s	truggling throughout the lesson. I will use the love and logic	love and logic approach is used when behavior issues occur. Students	
approach to give them choices to improve. When I need the student's		should use the base-10 manipulatives appropriately and share with	
attention or am waiting for them to all be ready, I will ask them to give		the other students at their table if necessary. Students should do their	
their signals	s such as a hand on their head, nose, or shoulders.	own work when given the practice problems, so I am able to see their	
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Minutes	Procedures		
1	Set-up/Prep:		
2.5	Get our 4 mini whiteboards, EXPO marker, and Fraction And	hor Chart. Get out the base-10 blocks/manipulatives	
3-3	1. Say the 3 rules together.	ining/stimulate interest/generate questions, etc.)	
	More on the top? No need to STOP! (Sho	ow students actions, touch the top of your head with stop signal and	
	then show the signal to the crowd.		
	 More on the floor? Go next door and g 	et 10 more! (Touch the floor, knock on the door, grab the 10 more)	
	 Numbers the same? Zero's the game! (St toking the same? same and same is an adverted of the same is a same in the same is a sam is a same is a	art with the same number on each hand, collide your hands together	
	taking those numbers away and creating a zero with your hands.)		
	 Using mini whiteboards, one student will be holdi 	ng the number seven and another the number four to create the	
	number 74. The person that is holding the number	r seven will also be holding a white sheet of paper with the number 10	
	on it.		
	 Have two other students hold the 1 and the 9 for 1 numbers for the answer 	he number 19. Their whiteboards will also have space below these	
	numbers for the answer.		

5. Ask students which rule this subtractions problem (74-19) is following.

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	6. Go through the steps with the students that are holding the whiteboards to show the class.
	 Since there is more on the floor in the ones place it follows rule 2.
	• The student that is holding the number 4 will know on Mr. 7s whiteboard. They will take the 10 away from Mr.
	7. What does 7 become when we take 10 away. Answer: 6, See if any of the students can explain to you why it
	changes to 6 using what they know about place value.
	 Once we take the 10 and add it to 4, what does the 4 become?
	 "Now, are we able to do our subtraction?"
	7. Do the subtraction together as a class.
15	Explain: (concepts, procedures, vocabulary, etc.)
	1. Go over what the answer to a subtraction problem is called.
	2. Go over multiple examples together as a class.
	5. Use the shartboard to go through the problems with the students.
	5. At the beginning of each problem, ask which rule is being used
	6. Next, ask them the first step to the problems.
	7. Go through all the steps such as just subtracting or having to borrow from the tens place.
	8. Each time they say the rule, say it out loud and review the actions, so it sticks with them.
	9. For a few of the problems, ask the students to complete them on their own first and then have a volunteer come do it at
	the board.
	10. Towards the end of the lesson, show the students how they can use the base-10 blocks to solve their equation.
	11. The students will get out the base 10 blocks that represent the top number. They are not allowed to just take the bottom
	number away and add what is left to get the answer.
	Have the students look at the one's place first and decide if they must borrow from the tens place in order to
	take away the bottom number from the ones.
	 If they borrow they will bring over one of the tens which will show them automatically that their amount of
	tens went down by one. If we have enough base-10 blocks the students can change the 10 into single cubes or
	they can just subtract from the tens without taking away cubes.
	 The students will see that they now have ten more cubes in the one's place and can add those up to observe here will be any location of the second sec
	now much they now have in the one's place.
	 Now they will do their subtraction by taking away the number of cubes represented by the second number first in the ones and then do the same with the tens
	12. Students will not be required to use this method if they find it to be more confusing.
10	Explore: (independent, concrete practice/application with relevant learning task -connections from content to real-life
	experiences, reflective questions- probing or clarifying questions)
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4. While the students are waiting for others to finish, they may work on other assignments or will be given another activity	
to do after the teacher says they are ready to turn in their worksheet.	
 Formative Assessment: (linked to objectives, during learning) Progress monitoring throughout lesson (how can you document your student's learning?) Students will be given review problems. They will be allowed to use base-10 manipulatives for half of the problems. The students will be asked to put their manipulatives away for the other half of the problems and apply their mental strategies. The teacher will review their problems. If they had some incorrect, the teacher would circle them and have them try to do them again. The number of circled problems will show their progress. 	5

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

I thought that the lesson went very well. The students had a lot of fun learning the actions that followed their subtraction rules. If I could do this differently, I would show the actions as soon as they learned the rules. I would not wait until a later lesson because the students that learn by doing could get more out of learning it from the beginning. I watched some of the students do the actions when they worked on problems on their own rather than as a whole group. This was another indicator that it was something that helped the students understand the rules. It started out the lesson with excitement and added new learning to a topic they have already been talking about for a couple weeks. After that, we went through a skit together. A few of the students were called up to the front to go through the steps with their class. I had a 10 drawn up, so the students were able to see the 10 being given away. One of the students knocked on their neighbor's door and begged Mr. 7 to give them a 10. It was a fun little skit and I really think it sparked a fire in my students to want to participate in the lesson. If I would have had more time to do the lesson, I would have made it possible for every student to perform the skit. When we started working on the rest of the problems, we reviewed the rule that the problem was following. Students would say the rule with me and do the actions. Then I would have the students tell me the first step that we had to take to do the rule. If we had to go next door to get 10 more, we would knock on the door and beg mister number to give us a 10. The students would determine what the number in the tens place would come. For example, a 6 in the tens place would become a 5 because you took 10 away. Next, we would add ten to the one's place and determine what that number would become. A 6 in the one's place would become a 16. This went very well. I was so excited to hear the students be able to talk through the problem with me. After we did a few as a class, the students were super eager to volunteer to do a problem on the board. It was so awesome to see the students talk through their process in front of the class. If the students wanted help, they were able to ask their friends to help them talk through it. The students learned the answer to a subtractions problem. They learned how to use base-10 blocks to help them solve the subtraction problems. This was new for me and them, and I think it needs a little more practice. I think a lot of students would benefit from using the blocks if they had some more time to work with them. Overall, I thought the lesson went very well. I could tell that the students were meeting my objectives through their participation during the lesson and after checking their math problems when they were finished. The students that did get problems wrong just made simple mistakes. They were able to point out what they did wrong before I even had to go over it with them. I would spend more time on this lesson and expand the concepts throughout the whole subtraction unit. I would have the base-10 blocks out in my room, so students were able to use them if necessary towards the beginning of learning subtraction. The manipulatives would eventually be taken away once the students got better at their subtraction. Since a lot of students use their fingers right now to figure out the answer to their subtraction, I think they would be less likely to make mistakes by using the base-10 blocks because they are able to see what they are taking away and what is left over after that is done. I would definitely teach this lesson again while implementing a few of the minor changes.