Grade 2	Lesson: 9- Models to Subtract Numbers	Two-Digit	Reference to English
Math Standard(s): 2.NBT.5 (also 2.NBT	.9) D	omain: Number and Operations in Base Ten	
Content Objective(s):		Language Objective(s):	
Students will use models to subtract two-digit numbers, with and without regrouping. I can use connecting cubes to subtract two-digit numbers. Essential Understanding: The standard algorithm for subtracting two-digit and two-digit numbers is just an extension of the algorithm for subtracting two-digit and one-digit numbers.		Students will explain the order of solving a problem using 1 st , 2 nd , 3 rd , 4 th . I can explain the order of solving a problem using 1 st , 2 nd , 3 rd , 4 th . Required Academic Vocabulary for Word Wall: Listen: Read: Write: Speak: 1 st , 2 nd , 3 rd , 4 th Sentence Frame:	
 Materials: Place-Value Mat A (Teaching Tool 8) Connecting Cubes (or Teaching Tool 1) Whiteboards, erasers, and markers. Models to Subtract Two-Digit Numbers (page 267) Guided Practice (page 268) 		Additional Lesson Vocabulary: Baseball cards,	
Lesson: Instructional Time: 35 minutes			

Opening: (3 minutes)

- T: "You have learned to subtract a one-digit number from a two-digit number. Let's do one!
- T: "Look at the board, 20 3 = ___."
- T: "Do I subtract ones or tens first?"
- S: will respond, "we subtract the ones first."
- T: "Yes, we subtract the ones first. 0 take away 3. Can we take 3 cubes from 0?"
- S: will respond, "no."
- T: "No we can't. Do we need to regroup?"
- S: will say, "Yes."
- T: "Yes. We need to regroup. I will take 1 of the groups of tens and break it up. How many ones do I have now? I will write 10 in the box over the ones and cross out the 2 and make it 1."
- T: "Now I will take away 3. How many do I have now?"
- S: will respond, "7."
- T: "How many tens do we have left? Show me with your fingers."
- S: will show 1 fingers.
- T: "Let me write it. 20-3=17. Now, please read the subtraction sentence to your neighbor."
- S: will read the subtraction sentence to their neighbor, "20 3 = 17."
- T: "Today, you will learn to subtract a two-digit number from a two-digit number.

Introduction to New Material (Direct Instruction): (5 minutes)

- Write 31 6 = 25 and 31 16 = ___ on the board. Show them side-by-side in vertical form.
- T: "How are these problems alike?"
- S: will respond, "they both have the number 31" or "they both have 6s" or "they are both subtraction problems."
- T: "How are they different?"
- S: will respond, "there is 1 ten in the second problem."
- T: "Let's do a subtraction problem together. This one will have 2 two-digit numbers."
- T: "I will write the problem on the board. While I write the problem, you need to collect your whiteboard, eraser and markers."
- Teacher will write 42 19 = ____ on the board (vertical subtraction frame).
- T: "I need you to write the problem on your board."
- S: will write 42 19 on their boards.
- T: "We need to subtract. What do we do first?"
- S: will say, "we subtract the ones."
- T: "What is 2 take away 9?"
- S: will respond, "we can't" or "we need to regroup."
- T: "We need to regroup. I will take one of the tens and put it with the ones. That makes 3 in the tens place and 12 in the ones place. What is 12 minus 9?"

- S: will respond, "12 9 = 3"
- T: "12 minus 9 equals 3. I will write a 3 in the ones place."
- T: "Now what do I do?"
- S: will respond, "subtract the tens."
- T: "Yes, I subtract the tens. 3 take away 1 equals what? Show me with your fingers."
- S: will show 2 fingers.
- T: "Yes, 3 take away 1 equals 2. So, 42 minus 19 equals 23. Please read the subtraction sentence to your neighbor."
- S: will turn to their neighbor and say, "42 minus 19 equals 23."

Guided Practice: (12 minutes)

Use the modeling cycle:

Teacher Does:

"Now I need you to work with a partner and solve 4 more problems. We will do 1 more problem together."

1 Students Does with Teacher:

- Write 23 17 on the board in a subtraction frame.
- T: "I need a helper.
- Teacher will choose a student.
- T: "I need you to teach me how to subtract the problem on the board."
- S: will explain,
 - o 1st add the ones.
 - o 2nd regroup
 - \circ 3rd add the tens
 - 4th read the subtraction sentence
- S: as the student explains they will also solve the problem.
- Help the student as needed.
- T: "Thank you very much for teaching us. You did very well."

All Students Do:

- T: "Each of you will teach your partner how to do a subtraction problem. The problems are written on the board. The papers are on the counter. Collect your papers and get started."
- S: will collect their papers and get started.
- Teacher will walk around the room helping students as needed.
- T: "10,9,8,7,6,5,4,3,2,1 Time is up! Please turn in your papers and come sit on the carpet."
- S: will clean up, turn in their papers and sit on the carpet.

Independent Practice: (7 minutes)

- Write 52 13 = ___ on the board in a vertical subtraction frame.
- T: "Now it is your turn to do some problems on your own. I will do the first one with you. Look at the board, 52 13 = ____."
- T: "Do I subtract ones or tens first?"
- S: will respond, "we subtract the ones first."
- T: "Yes, we subtract the ones first. 2 take away 3. Can we take 3 cubes from 2?"
- S: will respond, "no."
- T: "No we can't. Do we need to regroup?"
- S: will say, "Yes."
- T: "Yes. We need to regroup. I will take one of the groups of tens and break it up. How many ones do I have now? I will write
- 12 in the box over the ones and cross out the 5 and make it 4."
- T: "Now I will take away 3. How many do I have now?"
- S: will respond, "9."
- T: "Now we need to subtract the tens. What is 4 minus 1? Tell your neighbor."
- S: will turn to their neighbor and say, "4 minus 1 equals 3."
- T: "Show me with your fingers, what is 4 minus 1?"
- S: will show 3 fingers.
- T: "Let me write it. Now, please read the subtraction sentence to your neighbor."
- S: will read the subtraction sentence to their neighbor, "52 13 = 39."
- T: "Good job. Now it is your turn to do the guided practice problems. You will have 5 minutes. I will pass out the papers and you do your work at your desks."
- Teacher will pass out their guided practice papers and return to their desks.
- S: will complete the guided practice paper.

T: "10, 9, 8, 7, 6, 5, 4, 3, 2, 1. Time is up! Turn in your papers, get your whiteboards, erasers and markers, then go to the carpet."

S: will turn in their papers, collect their boards, erasers and markers, then go to the carpet.

Closing: (5 minutes)

- Pass out the whiteboards, erasers and markers.
- T: "Last problem of the day. It is a story problem. Write down or draw the important information on your boards."
- T: "Write a subtraction frame on your board."
- S: will write a subtraction frame on their board.
- T: "Show me your boards. Good job, now I will read you the story problem."
- T: "Anita has 63 baseball cards. (give students time to write 63) Dave has 24 baseball cards. (give students time to write 24) How many more cards does Anita have than Dave? Make sure you wrote the numbers in the subtraction frame."
- T: "Show me your boards."
- S: will show the teacher their boards.
- Check the student boards to make sure the students wrote the equations correctly.
- T: "Help me fill in my subtraction frame. How many baseball cards did Anita have?"
- S: will respond, "63 baseball cards."
- T: "Right, so I will write 63 at the top of my frame."
- Write 63 in the subtraction frame on the board.
- T: "How many baseball cards does Dave have?"
- S: will respond, "24"
- T: "Yes, I will write 24 below 63 in the subtraction frame."
- Write 24 in the subtraction frame.
- T: "Now I need to subtract. I will start with the ones. 3 take away 4. Can I do that?"
- S: will say, "no."
- T: "What do I need to do?"
- S: will say, "regroup."
- T: "Yes I need to regroup. I will take one group of ten from the tens. Now I have 13 in the ones and 1 in the tens. What is 13 take away 4? Tell your partner."
- S: will turn to their partner and say, "13 minus 4 equals 9."
- T: "13 minus 4 equals 9. I will write 9 in the ones place. Now I need to subtract the tens place. Show me with your fingers what 5 take away 2 is."
- S: will show 3.
- T: "Yes, I will write 3 in the tens place. That makes 39. Please read the subtraction sentence to your neighbor."
- S: will tell their neighbor, "63 minus 24 equals 39."
- T: "Good job! 63 minus 24 equals 39."

Assessment:

Guided Practice