Math Standard(s): 2.NBT.5 (also 2.NBT.6 and 2.NBT.9)	Domain: Number and Operations in Base Ten
Content Objective(s):	Language Objective(s):
Students will use the standard algorithm symbolically to add	Students will say the addition sentence.
two-digit numbers, with and without regrouping.	I can say the addition sentence.
I can use the standard algorithm symbolically to add two-digit	
numbers, with and without regrouping.	
Essential Understanding:	Required Academic Vocabulary for Word Wall:
The standard addition algorithm for adding two-digit and two-	Listen:
digit is just an extension of the algorithm for adding two-digit	Read:
and one-digit numbers. The ones are added first and then the	Write:
tens.	Speak:
(),	Sentence Frame:
Materials:	Additional Lesson Vocabulary:
Number Cards 0-11 (Teaching Tool 2)	
Whiteboards, erases and markers.	
Models to Add Two- and One-Digit Numbers (page 225)	
Guided Practice (page 226)	

Lesson: 8-5

Adding Two-Digit Numbers

Reference to English

Instructional Time: 40 minutes

Opening: (3 minutes)

Lesson:

Grade 2

- Draw an addition frame on the board.
- Use connecting cubes as you demonstrate 22 plus 29.
- Pass out whiteboards, markers and erasers.
- T: "You have learned how to use models to add 2 two-digit numbers. Let's do one together."
- T: "I have written an addition frame on the board. Please do the same on your board."
- S: will write an addition frame on their board.
- T: "Please fill in the addition frame with 22 plus 29. I will too."
- S: will write 22 plus 29in the addition sentence.
- T: "Show me your boards. (check the students addition frames to make sure they filled them in correctly)
- S: will show the teacher their boards.
- T: "Good, now let's add. Tell your neighbor what you do first."
- S: will tell their neighbor, "add the ones first."
- T: "We add the ones first. Please add 2 plus 9 and write it in the addition frame."
- S: will add 2 plus 9 and write it in the addition frame.
- T: "Raise your and, what is 2 plus 9."
- S: will raise their hands, "2 plus 9 equals 11."
- T: "Correct, 2 plus 9 equals 11. Now let's regroup. I will write 1 in the ones place and 1 in the box above the tens place. Now what do I do?"
- S: will respond, "add the tens."
- T: "Yes, add the tens. 1 plus 2 plus 2 equals _____? Write it on your board."
- S: will write 5 in the tens place.
- T: "Show me your board."
- S: will show the teacher their boards."
- T: "Good, 22 plus 29 equals 51. Please read the addition sentence to your neighbor."
- S: will read, "22 plus 29 equals 51" to their neighbor."
- T: "Good job, say it with me, 22 plus 29 equals 51."
- S: will say "22 plus 29 equals 51" with the teacher.
- T: "That is what we practiced last time, today you will use paper and pencil only to add 2 two-digit numbers."

Introduction to New Material (Direct Instruction): (7 minutes)

- Write 46 + 26 on the board in the addition frame.
- T: "Look at the board, I have written 46 plus 26 in the addition frame. Please write it on your board and solve it."
- S: will write 46 + 26 on their boards in an addition frame and solve it.
- As the students solve the problem walk around and help as needed.

T: "Show me your boards. Good job, let's solve it together. T: "What do we do first?" S: will respond, "add the ones." T: "Good, I will add the ones. Tell your neighbor, 6 + 6 equals ____." S: will turn to their neighbor and say, "6 plus 6 equals 12." T: "What is 6 plus 6?" S: will respond, "6 plus 6 equals 12." T: "Correct, let's regroup. Raise your hand if you want to come up to the board and write 12 in the correct spots." Teacher will pick a student. S: will right 12 in the correct spots in the addition frame. T: "Awesome, you put the 2 in the ones place and the 1 in the box in the tens place. Thank you. What do we do next?" S: will respond, "add the tens." T: "Yes, we add the tens. Show me with your fingers, 1 plus 4 plus 2 equals ____." S: will show 7 with their fingers. T: "Good job. 46 plus 26 equals 72. Please read the addition sentence to your neighbor." S: will read 46 + 26 = 72" to their neighbor. T: "Now, check your boards, does your addition frame look the same as mine?" S: will check their addition frames. T: "Show me your boards (check the student work and help the students who did the problem incorrectly). Good job, you may erase them." **Guided Practice: (12 minutes)** *Use the modeling cycle:* **Teacher Does:** T: "Now it is your turn to practice with a partner. I want one of you to be the teacher and the other to be the students. Then you will switch roles. Each of you will teach two problems that I have written on the board." 1 Students Does With Teacher: T: "Before I let you begin, I need a student to come up and help me." Teacher will choose a student. T: "I want you to teach me how to add using the addition frame. The problem is 15 plus 18." Write 15 plus 18 in a number frame on the board. T: "Please teach me how to add 15 plus 18. Tell me what I do first and then second." S: will say, "first you add the ones. 5 plus 8 equals 13. Then regroup." T: "5 plus 8 equals 13. How do I write that in the addition frame?" S: will respond, "write the 3 in the ones, write the 1 in the box." Teacher will write 13 in the appropriate place in the addition frame. T: "Then what do I do?" S: will say, "add the tens. 1 plus 1 plus 1 equals 3. Write 3 here (in the tens place)." T: "Will you read the addition sentence for me?" S: will say, "15 plus 18 equals 33." T: "Very good, thank you for teaching me how to add and regroup. You may sit down." Help the student with the steps as needed. If they need help with the language, scaffold them along. Write the steps on the board so students can use it while they are teaching each other. 2 Students Do: Have 2 addition frames written on the board. Problems are 27 plus 50 and 62 plus 28. T: "Now I need two helpers." Teacher will choose two students to come up and help. T: "Student #1 I need you to teach student #2 how to add using the addition frame. Student #2 I need you to pick the cards." S: #2 will pick the cards and student #1 will write them in the addition frame. S: #1 will teach student #2 how to add the numbers. 1st add the ones. 0 2nd regroup. 3rd write the ones in the ones place. 4th write the tens above the tens. 5th add the tens Scaffold the students as needed.

- T: "Now you get to switch. Student #1 you will pick the cards and student #2 you will teach student #1 how to add and regroup."
- S: #1 will pick the cards and student #2 will write them in the addition frame.
- T: "Student #2 I need you to pick a card from the deck and write it on the addition frame."
- S: will pick a card and write the number on the addition frame on the board.
- T: "Student #2 teach student #1 how to add and regroup."
- S: #2 will teach student #1 how to add and regroup.
- T: "Thank you for your help. Now you may sit down."

All Students Do:

- T: "Now it's your turn! I will give each group a page 229. The problems are written on the board.
 - 25 + 16
 - 76 + 15
 - 40 + 53
 - 63 + 27

You will need to complete the 4 more problems. You will teach 2 problems each. Use the connecting cubes as needed. You have 8 minutes."

- S: will do the activity.
- Teacher will walk around the room helping and guiding groups as needed.
- T: "10, 9, 8, 7, 6, 5, 4, 3, 2, 1. Time is up. Please clean up the connecting cubes and turn in your papers, then sit on the floor."
- Collect the papers.

Independent Practice: (10 minutes)

- T: "Now it is your turn to practice individually. We will do the first one together and then you will finish guided practice by vourself."
- T: "I have the problem written on the board, 34 plus 17 equals ____? Do we add the ones or the tens first?"
- S: will respond, "the ones."
- T: "Yes, we add the ones first. What is 4 plus 7?"
- T: "Raise your hand if you know what 4 plus 7 is."
- S: raise their hands and say, "4 plus 7 equals 11."
- T: "Do we need to regroup? Thumbs up or down?"
- S: will show thumbs up.
- T: "I will write 1 below the ones and the other 1 in the box in the tens. What do we do next?"
- S: will respond, "add the tens."
- T: "Yes, we add the tens. 1 plus 3 plus 1 equals ____? Tell your neighbor."
- S: will tell their neighbor, "1 plus 3 plus 1 equals 5."
- T: "Show me with your fingers."
- S: will show 5 with their fingers.
- T: "Good, read the addition sentence to your neighbor."
- S: will read, "34 plus 17 equals 51."
- T: "Very good, did we regroup? Thumbs up or down?"
- S: will show thumbs up.
- T: "Now it is your turn to do the rest of guided practice. You will have 6 minutes to do 5 problems."
- S: will work on the rest of the problems.
- T: "10, 9, 8, 7, 6, 5, 4, 3, 2, 1. Time is up. Turn in your papers and sit on the floor."
- Collect the papers.

Closing: (8 minutes)

- Pass out whiteboards, erases and markers.
- T: "To finish up today I am going to read you a story problem. As I read it I will write the information on your board. To start with, write an addition frame on your board."
- S: will write an addition frame on their board.
- T: "Amir planted 25 trees. Juan planted 27 trees. Write the information on your board."
- S: will write 25 and 27 on their boards.
- Teacher will write 25 plus 27 on the board in the addition frame.
- T: "How many trees did they plant in all? Find the answer."
- S: will find the answer and write it on their board.
- T: "Show me your boards. Good job. I wrote 25 plus 27 in my addition frame. Tell your neighbor what you do first."
- S: will say, "add the ones."

- T: "Yes, first I will add the ones. 5 plus 7 equals 12. I need to regroup. Where do I write the 2?"
- S: will say, "in the ones place."
- Write 2 in the ones place.
- T: "Where do I write the 1?"
- S: will say, "in the box."
- T: "Yes, I will write 1 in the box above the 1."
- Write 1 at the bottom the tens column.
- T: "Then what?"
- S: will say, "add the tens."
- T: "Yes, add the tens, 1 plus 2 plus 2 equals 5. I will write that. Read the addition sentence to your neighbor."

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- S: will read, "25 plus 27 equals 52."
- T: "Good job, 25 plants plus 27 plants equals 52 plants."

Assessment:

Guided Practice