Grade 2	Lesson: 8-		Reference to English
	Ways to Ad	id	
Math Standard(s): 2.NBT.5 (also 2.NBT.6	and 2.NBT.9)	Domain: Numb	er and Operations in Base Ten
Content Objective(s):		Language Objective(s):	
Students will use different methods to help them solve addition		Students will teach how to add two-digit numbers to others.	
problems.		我会教别人怎么相加二位数字。	
我会用不同方式来解答加法问题。			
Essential Understanding:		Required Academic Vocabulary for Word Wall:	
All sums and differences can be found using models (cubes).		Listen: 数字线	
Some calculations are done easily using mental math or paper		Read:	
and pencil. More complex calculations can be done using a		Write:	
calculator.		Speak:	
		Sentence Frame:	
Materials:		Additional Lesson Vocabulary:	
 Number cards with a set of two-digit numbers on each (ie:56 and 32) 			
Manipulatives used for adding			
Connecting Cubes (or Teaching Tool 1)			
Adding More than Two Numbers (page 241)		\sim	
Guided Practice (page 242)			
Lesson:		Instruction	onal Time: 40 minutes
Opening: (1 minutes)			
Hand out whiteboards, markers and erasers.			
T: "你已经学会怎么用心算,方块,纸跟笔和计数机做加法了。今天你会练习选一个方式来解答加法问题。"			
T: "我会在白板上写下 4 个题目。"			
Write 4 different addition problems on the board.			
o 9 + 2 =			
o 8 + 9 =			
o 25 + 21 =			
o 15 +12 =			
Introduction to New Material (Direct Ins	truction): (7 minutes)		
T: "我们会用不同的方式来解答每一题。请把第一个问题写在白板上。"			
S: will write $9 + 2 = $ on their board.			
T: "你可以用哪个方式来做 9 加 2 ? "			
S: will respond, "make 10" or "count by 2"			
T: "我们来凑成 10,9 还需要几个才能凑成 10?"			
S: will respond, "we need 1."			
T: "对,我们还需要 1, 所以我们会从 2 拿 1 出来。 (show how you take one on the board) 给我看你的白板。"			
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- S: will show the work they have done on their boards to the teacher.
- T: "现在我有 10 加 1, 找出答案。"
- S: will add 10 plus 1, write it on their board and show the teacher.
- T: "给我看你的白板。很好, 9加 2 等于 11. 把加法算式念给你旁边的同学听。 = "
- S: will say, "9 plus 2 equals 11" to their neighbor.
- T: "现在我们来做下一题,但是我们会用另一个方式。你可以用数字线,心算,纸跟笔···除了凑成 10 的方式以外,什么方式都可以。"
- S: will add 8 + 9 using a method other than making 10.
- T: "给我看你的白板。我会请两个学生上来告诉我们他们怎么解答 8+9=____的."
- Teacher will call on two students to explain how they solved the problem.
- Teacher will scaffold the language as needed by the students.
- S: will demonstrate and explain how they added 8 + 9 =____.
 - "I used a number line. First I started at 0 counted to 8. I drew an arrow. Then I started at 8 and counted 9 more and wrote an arrow until I hit 17. 8 plus 9 equals 17."
 - "I counted on. I started with 8 and count up 9 using a hundred chart. 8,9,10,11,12,13,14,15,16,17. 8 plus 9 equals 17."
- T: "很好, 他们用了不同的方式解答 8 加 9, 但是他们的答案是一样的。"
- Continue with the last 2 problems the same as the 2nd.

Guided Practice: (12 minutes) *Use the modeling cycle:* **Teacher Does:** Write sentence frames on the board to help the students know what to say. Write/ draw methods on the board to show students different methods they can use to add. Have manipulatives (tens rods, connecting cubes) available for the students to use. T: "现在换你个同学练习了。你们会拿到一叠卡,每张卡上都有一组二位数字。一个学生会选卡然后另一个会选择 要用什么方式来相加。" T: "我来示范给你看。 1st 我会选一张卡。我的卡上有 24 和 14, 我需要相加。 2nd 我会把数字写在加法框里。 3rd 我会决定用什么方式来相加。我选择用十的棒子和方块来凑成十。 4th 我会先加十位数:2 加 1 等于 3. 我有 3 个十。 5th 我会加个位数:4 加 4 等于 8, 我有 8 个一。 6th 我会把十位数和个位数合起来。我有 3 个十和 8 个一,所以是 38. 7th 我会把 38 写在加法框的下面。" 1 Students Does with Teacher: T: "我需要 1 个学生来帮我。" Teacher will choose a student. T: "我们是一队, 我来选一张卡然后你写下来并教我们怎么解答这个加法问题, Teacher will choose a card. S: will say, "the numbers are _____ and ____. I will write them." T: "很好, 你要怎么做 ___ 加 ___?" S: will choose a method to add the two numbers. T: "好, 现在我来教你怎么用那个方式来做 + S: will teach the class how to add ____ + ___ using the specified method. "1st I add the ones. 0 2nd I add the tens. 3rd I write the answer." T: "很好, 他们用了 ___ 的方式。请回座位。 S: will say, "we add the ones first." T: "好, 你先加个位数然后我再加十位数。" S: will add the ones and write the answer, they will regroup if necessary. T: "很好,我来加十位数。" Teacher will add the tens. T: "你可以把加法算式念出来吗?" S: will read the addition sentence, T: "谢谢你的帮忙,请回座位。 All Students Do: Write 4 addition problems on the board. 74 + 12 29 + 360 30 +27 45 + 46 T: "现在换你了。白板上有 4 个题目, 每组需要做 2 题。" S: will do the activity. Teacher will walk around the room helping students and reminding them to use the language as they work together. T: "10, 9, 8, 7, 6, 5, 4, 3, 2, 1. 时间到,请把连接方块收起来,把纸交给我,然后回到地上的座位。" S: will clean up their activity, turn in their papers and sit on the carpet.

Independent Practice: (6 minutes)

T: "现在换你自己做了。我们先一起来做第一题。"

- Write 56 + 20 = ___ on the board.
- T: "我在白板上写了一个题目,请你们写下来。"
- S: will write 56 + 20 + on their boards.

T: "我们来用心算来解答 56 加 20. 你要怎么解答?我会在头脑里做加法。5 个十加 2 个十等于 7 个十 (have tens rods			
there to demonstrate to make it visual)"			
T: "然后呢?"			
S: will respond, "add the ones."			
T: "6 加 0 等于 6. 我来把答案写在白板上。"			
S: will write the answer on their board.			
T: "把加法算式念给你的同学听。"			
S: will read, "56 plus 20 equals 76."			
T: "很好,现在你有 5 分钟来完成剩下的题目。"			
 Teacher will pass out the papers and the students will work at their desks. 			
 Teacher will walk around the room monitoring and helping students. 			
T: "10, 9, 8, 7, 6, 5, 4, 3, 2, 1. 时间到, 请把纸交给我, 然后回到地上的座位。"			
S: will turn in their papers and sit on the carpet.			
Closing: (4 minutes)			
Pass out whiteboards, erasers and markers.			
T: "最后我们来做一个应用题。Jamie 去看鸟。他看到 31 只麻雀和 15 只冠蓝鸦。他一共看到几只鸟?请把加法问			
题写在白板上。"			
• Teacher and student will write 31 + 15 = on their boards.			
T: "我们要用学过的方式来解答这个问题。"			
S: will solve the problem using one of the methods.			
T: "给我看你的白板。"			
S: will show the teacher their boards.			
T: "很好,我要 2 个学生上来教我们怎么解答。"			
 Teacher will choose two students to come up and teach how to add 31 + 15. 			
S: will teach the class how solve 31 + 15 using one of the methods.			
o 1 st			
\circ 2^{nd}			
o 3 rd			
T: "很好,谢谢你。"			
Assessment:			
Guided Practice			
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