Grade 2	Lesson: 8-4	4	Reference to English
	Models to Add Two-Dig		
Math Standard(s): 2.NBT.5 (also 2.NBT.6 and 2.NBT.9)			er and Operations in Base Ten
Content Objective(s):		Language Objective(s):	
Students will use place-value models and the standard		Students will teach their partner how to add 2 two-digit numbers.	
algorithm to add 2 two-digit numbers.		我会教朋友怎么相加2个二位数字。	
我会用位置积木和标准算法来相加2个二位数字。			
Essential Understanding:		Required Academic Vocabulary for Word Wall:	
The standard addition algorithm for two-digit and two-digit is		Listen:	
just an extension of the algorithm for adding two-digit and one-		Read:	
digit numbers. The ones are added first and then the tens.		Write:	
		Speak:	
		Sentence Frame:	
Materials:		Additional Lesson Vocabulary:	
Place – Value Mat A (Teaching Tool 8)  ### Tool 18		积木	
Connecting cubes (or Teaching Tool 1)			
Whiteboards, erases and markers.			
Models to Add Two- and One-Digit Numbers (page 225)			
Guided Practice (page 226)			
Locconi Instructional Times 40 minutes			

# Opening: (3 minutes)

- Draw an addition frame on the board.
- Pass out whiteboards, markers and erasers.
- T: "你已经学会怎么用位置积木来做一位数和二位数相加的加法。我们一起来复习。"
- T: "我在白板上写了一个加法框,请你们也在你们的白板上照画。"
- S: will write an addition frame on their board.
- T: "请把 65 加 6 填进去。"
- S: will write 65 plus 6 in the addition sentence.
- T: "给我看你的白板。 (check the students addition frames to make sure they filled them in correctly)
- S: will show the teacher their boards.
- T: "很好, 现在我们来相加。告诉你旁边的同学你要先做什么。"
- S: will tell their neighbor, "add the ones first."
- T: "我们要先加个位数。请做 5 加 6 然后写在加法框里。"
- S: will add 5 plus 6 and write it in the addition frame.
- T: "请举手告诉我 5 加 6 是什么。"
- S: will raise their hands, "5 plus 6 equals 11."
- T: "没错, 5 加 6 等于 11. 我会把 1 写在个位数的位置上然后把 1 个十写在十位数上的格子里。现在我要做什么?"
- S: will respond, "add the tens."
- T: "对,要加十位数。1加6等于 \_\_\_\_? 请写在白板上。"
- S: will write 7 in the tens place.
- T: "给我看你的白板。"
- S: will show the teacher their boards."
- T: "很好, 65 加 5 等于 71. 请把加法算式念给你旁边的同学听。"
- S: will read, "65 plus 5 equals 71" to their neighbor."
- T: "很好, 请跟我一起说出来 65 加 5 等于 71."
- S: will say "65 plus 5 equals 71" with the teacher.
- T: "这是我们上次练习的,今天你会学习怎么用位置方块来相加 2 个二位数字。"

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

- Pass out place-value mats and connecting cubes.
- T: "我会把位置积木和连接方块发给你们。我来告诉你们一个应用题。Leslie 有 36 个方块。她的弟弟有 27 个方块。 他们一共有几个方块?我会把数字写在加法框里。用连接方块然后跟一个同学合作来解答这个问题。"
- S: will work in pairs to solve the problem.
- T: "请把加法框写在白板上然后解答问题。"
- S: will write the addition frame on their boards and solve the problem.
- T: "给我看你的白板。"
- S: will show the teacher their boards.

- · Check the student work on the boards.
- T: "用大拇指比给我看你有没有用连接方块来帮你。"
- S: will show thumbs up or down.
- T: "我们一起来做, 然后我会用连接方块来帮忙。"
- T: "Leslie 有几个方块?"
- S: will raise their hand and say, "36."
- T: "我会用方块做出 36. 我需要做出几组十?用手指比给我看。"
- S: will show 3 with their fingers.
- T: "没错, 我有三组 10 和 6 个其他的方块。"
- Show 3 groups of ten and 6 loose cubes to the class.
- T: "Leslie 的弟弟有 27 个方块。我会用方块来做出 27. 我需要做出几组十?告诉你旁边的同学。"
- S: will tell their neighbor, "2 groups of ten."
- T: "我们有 2 组十和 7 个其他的方块。"
- Show the students 2 groups of ten and 7 loose cubes. Put the groups of ten together with the other groups of ten and the ones with the other loose ones.
- T: "我们有几个其他的方块?跟我一起数 1,2,3,4,5,6,7,8,9,10,11,12,13. 我们可以进位吗?用大拇指比给我看。"
- S: will show thumbs up.
- T: "对,我们需要进位。我们可以做出一组 10,跟我一起数,1,2,3,4,5,6,7,8,9,10.我们把这组十跟其他的十放在一起,然后在十位数上的格子里写 1。"
- Write a 1 in the box above the 3 in the tens place.
- T: "我们还剩下几个一? (show the students the loose cubes).
- S: will respond, "3."
- T: "没错, 我会把 3 写在个位数的位置上。"
- Write 3 in the ones place.
- T: "我们加了个位数, 然后进位, 接下来呢?"
- S: will respond, "add the tens."
- T: "对, 我们要加十位数。告诉你旁边的同学, 1 加 3 加 2 等于 \_\_\_\_."
- S: will turn to their neighbor and say, "1 plus 3 plus 2 equals 6."
- T: "看白板, 我们有 36 加 27 等于 63. 检查你的白板看你的答案跟我的是不是一样的。"
- S: will their boards.

# **Guided Practice: (12 minutes)**

*Use the modeling cycle:* 

# **Teacher Does:**

T: "现在换你和同学练习了。你们要互相教导然后交换。你们要教白板上的两个题目。"

#### 1 Students Does With Teacher:

- T: "我需要 1 个学生来帮我。'
- Teacher will choose a student.
- T: "我要你教我怎么用加法框来做加法。题目是 36 加 47."
- Write 36 plus 47 in a number frame on the board.
- T: "请教我怎么做 36 加 47。请告诉我要先做什么然后再做什么。"
- S: will say, "first you add the ones. 6 plus 7 equals 13. Then regroup."
- T: "6 加 7 等于 13. 我要怎么把它写在加法框里?"
- 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: "接下来要做什么?"
- S: will say, "add the tens. 1 plus 3 plus 4 equals 8. Write 8 here (in the tens place)."
- T: "你可以把加法算式念给我听吗?"
- S: will say, "36 plus 47 equals 83."
- T: "很好,谢谢你,请回座位。"
- · 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 24 plus 35 and 59 plus 13.

## T: "我需要 2 个学生来帮我。"

- Teacher will choose two students to come up and help.
- T: "学生 1 需要加学生 2 怎么用加法框来做加法。学生 2 要选数字卡。"
- 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.
  - o 1<sup>st</sup> add the ones.
  - o 2<sup>nd</sup> regroup.
  - o 3<sup>rd</sup> write the ones in the ones place.
  - 4<sup>th</sup> write the tens above the tens.
  - $\circ$  5<sup>th</sup> add the tens
- Scaffold the students as needed.
- T: "现在请交换。学生 1 会选数字卡然后学生 2 会教学生 1 怎么做加法和进位。"
- S: #1 will pick the cards and student #2 will write them in the addition frame.
- T: "学生1要选一张卡然后写在加法框里。"
- S: will pick a card and write the number on the addition frame on the board.
- T: "学生 2 要教学生 1 怎么做加法和进位。"
- S: #2 will teach student #1 how to add and regroup.
- T: "谢谢你,请回座位。"

## All Students Do:

- T: "现在换你了。我会给你们第 225 页和 2 叠数字卡。你门要在 8 分钟内完成 4 题。
- 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. 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。"
- Collect the papers.

## **Independent Practice: (10 minutes)**

- T: "现在换你自己做了。我们先一起来做第一题。"
- T: "27 加 23 等于 \_\_\_\_? 我们要先加个位数还是十位数?"
- S: will respond, "the ones."
- T: "对,我们要加个位数。7加3是什么?如果你知道答案请举手。"
- S: raise their hands and say "7 plus 3 equals 10."
- T: "我们要进位吗?用大拇指比给我看。"
- S: will show thumbs up.
- T: "我会在个位数的位置上写 0 然后把 1 个十写在十位数上的格子里。接下来要做什么?"
- S: will respond, "add the tens."
- T: "对,我们要加十位数。1加 2加 2等于 \_\_\_\_?告诉你旁边的同学。"
- S: will tell their neighbor, "1 plus 2 plus 2 equals 5."
- T: "用手指比给我看。"
- S: will show 5 with their fingers.
- T: "很好, 请把加法算式念给你旁边的同学听。"
- S: will read, "27 plus 23 equals 50."
- T: "很好, 我们有进位吗?用大拇指比给我看。"
- S: will show thumbs up.
- T: "现在换你自己做了, 你有 6 分钟来完成 4 题。"
- S: will work on the rest of the problems.
- 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。"
- Collect the papers.

# Closing: (8 minutes)

- Pass out whiteboards, erases and markers.
- T: "最后我们一起来做一个应用题。我念出来然后你把资料写在白板上。
- T: "Rico 用 36 个积木做了一个堡垒。Tony 用了 38 个积木做了一个比较大的堡垒。"
- S: will write 36 and 38 on their boards.
- Teacher will write 36 plus 38 on the board in the addition frame.
- T: "他们一共用了几个积木?找出答案。"
- S: will find the answer and write it on their board.

- T: "给我看你的白板。很好, 我把 36 加 38 写在加法的框里了。告诉你旁边的同学要先做什么。"
- S: will say, "add the ones."
- T: "对, 要先加个位数。6 加 8 等于 14. 我需要进位。我要把 4 写在哪里?"
- S: will say, "in the ones place."
- Write 4 in the ones place.
- T: "我要把1写在哪里?"
- S: will say, "in the box."
- T: "对, 我要把 1 写在十位数上的格子里。"
- Write 1 at the bottom the tens column.
- T: "接下来呢?"
- S: will say, "add the tens."
- T: "对, 要加十位数, 1加 3 加 3 等于 7. 我来写下来。请把加法算式念给你旁边的同学听。"
- S: will read, "36 plus 38 equals 74."
- T: "很好, 36 个积木加 38 个积木等于 74 个积木。"

## Assessment:

**Guided Practice**