Grade 2	Lesson: 8-3 Adding Two- and One-Digit Numbers	Reference to English

Math Standard(s): 2.NBT.5 (also 2.NBT.9)	Domain: Number and Operations in Base Ten

Content Objective(s):	Language Objective(s):
Students will add a one-digit number to a two-digit number, regroup if necessary, and record the process in a vertical addition frame. 我会做一位数字和二位数字相加的加法并进位。	Students will teach their partner the order used to regroup. 我会教朋友怎么进位。
Essential Understanding: The standard addition algorithm for two-digit and one-digit numbers breaks the calculation into simpler calculations using place value, starting with the ones place and then the tens. Answers to the simpler calculations are used to give the final sum.	**Required Academic Vocabulary for Word Wall:** **Listen:** **Read:** **Write:** **Speak:** **Sentence Frame:** 第一，第二，第三，第四，第五_____.
Materials: • Place – Value Mat A (Teaching Tool 8) • Red Colored Pencil • Whiteboards, erases and markers. • Models to Add Two- and One-Digit Numbers (page 221) • Guided Practice (page 222)	**Additional Lesson Vocabulary:** 罐子

Lesson:	Instructional Time: 40 minutes

Opening: (3 minutes)
- Draw an addition frame on the board.
- Pass out whiteboards, markers and erasers.

T: "你已经学会怎么用连接方块来显示怎么做二位数和一位数相加的加法。今天你会学习怎么用纸跟笔来做二位数和一位数相加的加法。"

T: "所以我们今天不会用物体来做加法。我来告诉你一个应用题。**Aiden** 有 **24** 颗球。他又得到 **9** 颗。**Aiden** 现在有几颗球？"

Introduction to New Material (Direct Instruction): (7 minutes)
- Pass out whiteboards, markers and erasers.

T: "请写下加法框。"
S: *will write an addition frame on their board.*
T: "我来告诉你一个应用题。**Aiden** 有 **24** 颗球。他又得到 **9** 颗。**Aiden** 现在有几颗球？把你知道的资料填进加法框里。"
S: *will use the information from the story to fill in the addition frame.*
T: "检查你的加法框。你的上面有没有 **24** 然后下面 **4** 的下面有没有写 **9**？"
S: *will check their addition frames.*
T: "给我看你的白板。很好，大家都写对了。现在我们来相加，我要从哪里开始？"
S: *will respond, "start with the ones."*
T: "对，我要从个位数开始。告诉你旁边的同学 **4** 加 **9** 是什么。"
S: *will tell their neighbor, "4 plus 9 is 13."*
T: "大家一起说，**4** 加 **9** 是 **13.** 我要怎么为 **13** 个一进位？告诉你旁边的同学。"
S: *will tell their neighbor, "regroup 13 into 1 ten and 3 ones."*
T: "我们要把 **13** 进位成 **1** 个十和 **3** 个一。所以我们在个位数的位置上写下 3．我要把一个十写在哪里？写在你的白板上。"
S: *will write 3 in the ones place and 1 in the box above the tens place.*
T: "给我看你的白板。 (teacher will check the student boards to make sure they are writing the information correctly) 接下来我们要做什么？"
S: *will respond, "add the tens."*
T: "对我们要加十位数。写下 **1** 加 **2** 的答案。"
S: *will write down 3 in the tens places.*
T: "请把加法算式念给你旁边的同学听，**24** 加 **9** 等于 **33**。"
S: *will read, "24 plus 9 equals 33" to their neighbor.*

T: "请用大拇指比给我看要不要进位。"

S: *will show thumbs up.*

T: "对，我们要进位。"

Guided Practice: (12 minutes)

Use the modeling cycle:

Teacher Does:

T: "现在换你和同学练习了。我要你们互相教导然后交换。我先来示范。"

1 Students Does With Teacher:

T: "我需要 1 个学生来帮忙。"

• Teacher will choose a student.

T: "我要你教我怎么用加法框来做加法。我会选数字卡然后你教我。我先选两张数字卡。我得到 2 和 8，所以你可以帮我把 28 写在加法框里吗？"

S: *will write 28 on the addition frame on the board.*

T: "很好，现在我会从另一叠里选一张数字卡。我得到 6。你可以把 6 写在 8 下面吗？"

S: *will write 6 below the 8.*

T: "现在请相加。告诉我要先做做什么，然后再做什么。"

S: *will say, "first you add the ones. 8 plus 6 equals 14. Then regroup. Write 4 in the ones place. Write 1 above 2."*

T: "所以我要先加个位数。8 加 6 等于 14. 我会把 4 写在个位数的位置上然后 1 写在十位数的上面。接下来呢？"

S: *will say, "add the tens. 1 plus 2 equals 3."*

T: "你可以把加法算式念给我听吗？"

S: *will read, "28 plus 6 equals 34."*

T: "很好，28 加 6 等于 34。我们有进位吗？

S: *will respond, "yes"*

T: "很好，谢谢你教我怎么做加法和进位。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.

T: "我需要 2 个学生来帮忙。"

• Teacher will choose two students to come up and help.

T: "学生 1 需要教学生 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 *1st add the ones.*
- o *2nd regroup.*
- o *3rd write the ones in the ones place.*
- o *4th write the tens above the tens.*
- o *5th add the tens*

• Scaffold the students as needed.

T: "现在请交换。学生 1 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 会选两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 会教学生 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 221 页和 2 叠数字卡。你要在 6 分钟内完成 3 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。我们一起做第一题。"

T: "我在白板上写了一个题目，**22** 加 **9** 等于 ____? 我们要先加个位数还是十位数？"

S: *will respond, "the ones."*

T: "对，我们要先加个位数。**2** 加 **9** 是什么？如果你知道，请举手。"

S: *raise their hands and say "2 plus 9 equals 11."*

T: "我们要进位吗？用大拇指比给我看。"

S: *will show thumbs up.*

T: "我会把 **1** 写在个位数的位置下然后把 **1** 个十写在十位数上。接下来我们要做什么？"

S: *will respond, "add the tens."*

T: "对，我们要加十位数。**1** 加 **2** 等于 ____? 告诉你旁边的同学。"

S: *will tell their neighbor, "1 plus 2 equals 3."*

T: "用手指比给我看。"

S: *will show 3 with their fingers.*

T: "很好，把加法算式念给你旁边的同学听。"

S: *will read, "22 plus 9 equals 31."*

T: "很好，我们有进位吗？用大拇指比给我看。"

S: *will show thumbs up.*

T: "有，我们有进位。现在换你自己做了。你有 **8** 分钟来完成。"

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: "我们最后来做一个应用题。我来念出来然后你们把资料写在白板上。**Jody** 有 **17** 个罐子。她又收集了 **5** 个。"

S: *will write 17 and 5 on their boards.*

• Teacher will write 17 plus 5 on the board in the addition frame.

T: "**Jody** 一共收集了几个罐子？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。我写下了 **17** 加 **5.** 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。**7** 加 **5** 等于 **12.** 我需要进位。我要把 **2** 写在哪里？"

S: *will say, "in the ones place."*

• Write 2 in the ones place.

T: "我要把 **1** 写在哪里？"

S: *will say, "in the box."*

T: "对，我会把 **1** 写在十位数上的格子里。"

• Write 1 at the bottom the tens column.

T: "然后呢？"

S: *will say, "add the tens."*

T: "对，要加十位数，**1** 加 **1** 等于 **2.** 我来写下来。请把加法算式念给你旁边的同学听。"

S: *will read, "17 plus 5 equals 22."*

T: "很好，**17** 加 **5** 等于 **22**。"

Assessment:
Guided Practice