

Grade 2	Lesson: 10–9 Problem Solving: Look for a Pattern	Reference to English
Math Standard(s): 2.NBT.2 (also 2.NBT.4) in Base Ten		Domain: Numbers and Operations
Content Objective(s):		Language Objective(s):
Students will solve problems by finding number patterns. 我会用数字序列来解答问题。		Students will say, “__ comes next.” 我会说：下一个是__。
Essential Understanding: Some problems can be solved by identifying elements that repeat in a predictable way.		Required Academic Vocabulary for Word Wall: Listen: Read: Write: Speak: Sentence Frame: 下一个是__。
Materials: <ul style="list-style-type: none"> • Index Cards (numbers 865, 835, 855,875,845 written on them) • Index Cards (numbers 649,619,739,709,676 written on them) • Whiteboards, Markers, Erasers • Look for a Pattern (page 329) • Guided Practice (page 330) 		Additional Lesson Vocabulary:
Lesson:		Instructional Time: 35 minutes

Opening: (1 minutes)

- Students will start on the carpet.

T: “你已经学会怎么找出序列了。今天你会学习怎么用序列来回答问题。”

Introduction to New Material (Direct Instruction): (8 minutes)

- Choose 5 students to stand up in front of class. Give each student one of the index cards labeled with the numbers 255, 275, 245, 265, and 235.

T: “站在教室前面的 5 个学生手上都有一个数字，跟我念出数字。”

S: will read the numbers with the teacher.

T: “谢谢，现在你要帮我按照从小到大的顺序把这些数字排列出来。如果你知道哪个数字最小请举手。”

S: will raise their hand and say the student's name who is holding the smallest number.

T: “他说得对不对？用大拇指比给我看。”

S: will show thumbs up or down if they think that number is the least.

T: “我们先来看百位数。全部都是2，所以现在我们来个十位数。数字的十位数是什么？5, 7, 4, 6 和 3. 哪个数字最小？用手指比给我看。”

S: will show 3.

T: “对，3最小，所以请哪235的学生站到左边去。”

S: with 235 will stand to the left of the other students holding numbers.

T: “我们再来看十位数，3之后的数字是什么？告诉你旁边的同学。”

S: will tell their neighbor, “4 comes after 3.”

T: “你说4在3后面，所以请拿着245的学生站到拿着235的学生的右边。”

- Continue this process until all 5 students are in order from least to greatest.

T: “很好，现在按照顺序把数字念出来，235, 245, 255, 265, 275.”

S: will read the numbers with the teacher.

Guided Practice: (10 minutes)

Using the Modeling Cycle:

Teacher Does:

T: “现在换你和一个同学练习了。每组会拿到2组卡和第329页。你们要按照从小到大的顺序把这5个数字排列出来。我先来示范给你们看。”

1 Student Does with Teacher:

T: “我需要一个学生来帮忙。”

- Teacher will choose a student.

T: “看这5个数字卡。跟我一起念出来，325, 125, 525, 225 和 425.”

S: will read the numbers with the teacher.

T: “看数字的百位数，我们有 3, 1, 5, 2 和 4. 哪个数字最小？”

S: will say, “1 is the least.”

T: “对，1最小，所以我们要先写下来。你可以按照顺序写下剩下的数字吗？”

S: will say put the rest of the number cards in order from least to greatest.

T: “很好，按照顺序把那些数字写在白板上。”

S: will write the numbers in order on the board.

T: “他边写，我们边说出下个数字是什么。”

S: will tell the student teacher the number that comes next.

T: “很好，请回座位。”

All Students Do:

T: “我叫到你们那组时，请来拿纸然后开始。”

- Teacher will call out the groups and pass out the papers and cards.

S: will put the numbers in order and write it on their papers.

- Teacher will walk around the room helping the students as needed and reminding them to talk throughout the activity.

T: “10,9,8,7,6,5,4,3,2,1. 时间到了。请把纸拿给我，然后回到地上的座位。”

S: will turn in their papers and sit on the carpet.

Independent Practice: (10 minutes)

T: “现在换你自己做了。你要按照从小到大的顺序把数字排列出来。之后我们会一起回答问题。”

T: “你们会拿到一张纸，拿到之后就可以开始了。你有4分钟来完成。”

S: will get started on their work.

- Teacher will walk around helping students as necessary.

Assessment:

Guided Practice

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