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| 1.MD.2Grade 1 | Lesson: 12–5 Use Reasoning | Reference to English |
| Math Standard(s): 1.MD.2 | | Domain: Measurement and Data |
| Content objective(s): | Language Objective(s): | |
| Students will use nonstandard units to measure the length of different objects. 我会用非标准的单位来测量东西的长度。 | Students will say the measurements they found. 我会说出我所找出的测量。 | |
| Essential Understanding: Some problems can be solved by reasoning about the conditions in the problems. | Required Academic Vocabulary for Word Wall: Listen: 多, 少 Read: Write: Speak: 多, 少 Sentence Frame: | |
| Materials: • Outdoor items • Connecting cubes • Paper clips | Additional Lesson Vocabulary: | |
| Lesson: | | Instructional Time: 20 minutes |

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Opening: (4 minutes)

T: “你已经学会怎么用连接方块来测量长度了。今天我们会学习怎么用不同的东西来测量长度。”

T: “我需要一个学生来帮我。”

T: “我会走一步，然后你也走一步。我们走的距离一样长吗？”

S: “no.”

T: “为什么？告诉你旁边的同学。”

S: “because the teachers step is larger than the students.”

T: “先在我们从教室的一边走到另一边，我们会走一样多步吗？我会多走几步？”

S: “___ will take more steps.”

T: “我们来测量。我先走，你再走。跟我一起数。”

T: “我会把我走的写在白板上。”

T: “现在换你走了，我们一起来数。”

T: “我来把你走的写在白板上。”

T: “谁走了比较多步？”

S: “___ took more steps.”

Introduction to New Material (Direct Instruction): (5 minutes)

T: “假设你用连接方块来测量一个物体。如果你又用回纹针来测量，回纹针的数量会跟连接方块的数量一样吗？需要比较多还是比较少？”

S: will respond.

T: “我们来用不同测量单位来测量物体。”

T: “这是一只鞋。我们用连接方块来测量。”

• Measure the shoe or any object using connecting cubes and record it on the board.

T: “现在我们来用回纹针来测量这只鞋。”

• Measure the shoe or any object using paper clips and record it on the board.

T: “现在我们来用橡皮擦来测量这只鞋。”

• Measure the shoe or any object using erasers and record it on the board.

T: “我们来做比较，我们用了比较多个橡皮还是回纹针？”

S: “we used more paper clips.”

T: “我们用了比较多回纹针还是连接方块？”

S: “we used more _____.”

Guided Practice: (5 minutes)

Use the modeling cycle:

All Students Do:

T: “现在我要把你们分成两个一组。你们需要用回纹针和连接方块来测量三个不同的物体。请把测量的数据写在401页。”

T: “你有4分钟来完成。”

S: will measure three items using paper clips and connecting cubes.

T: “很好，我们来讨论你们的测量。你在测量时，你需要比较多个回纹针还是连接方块？”

S: “I used more _____.”

Independent Practice: (4 minutes)

T: “请完成402 – 403页。用连接方块和回纹针来测量。”

S: will measure problems 1–4 using connecting cubes and paper clips.

T: “请告诉我你需要比较多个回纹针还是连接方块。在第1和2题里，请把你用比较多的圈起来。”

S: will answer.

T: “在第3和4题里，请把你用比较少的圈起来。”

S: will answer.

Closing: (1 minutes)

T: “今天我们用非标准单位测量物体。今天做得很好。”

Assessment:

Guided and Independent Practice page 402–403