Grade 2	Lesson: 3-1	Reference to English

Math Standard(s): 2.OA.1	Domain: Operations and Algebraic Thinking

Content Objective(s):	Language Objective(s):
Students will subtract 0, 1，and 2 from a number by applying the concepts of 0 less than, 1 less than and 2 less than. 我会用少 0, 少 1 和少 2 的方式来减 0,1 和 2。	Students will use the phrase less than to talk about subtraction sentences. 我在做减法算式时，我会用"少"这个词语。
Essential Understanding: The number relationships of 0 less than, 1 less than and 2 less than are the basis for subtraction facts with 0, 1，and 2.	**Academic Vocabulary for Word Wall:** **Listen:** 少，少于 **Read** **Write:** **Speak:** 少于，少 **Sentence Frame:** ___ 少，少于
Materials: • **Connecting cube (teaching tool 1)** • **Number cube (Teaching tool 30)** • **Guided Practice Sheets**	**Additional Lesson Vocabulary:** 少于，少

Lesson: Subtracting 0,1,2	Instructional Time: 30 mins

Opening: (3 minutes) –
T: "如果我有 **5** 颗苹果然后把一个给别人，我会少 **1** 颗。现在我有几颗苹果？ 跟我一起拍手。"
S: will clap 4 times
T: "如果我有 **5** 颗苹果然后我给别人两颗，我还会有几颗？ 跟我一起拍手。"
S: " 1,2,3"
T: "很好，所以你已经知道怎么解答多于的问题了，今天你会学习怎么解答少于的问题。"

Introduction to New Material (Direct Instruction): (5 minutes)
Arrange children in pairs. Give each pair connecting cubes, a number cube, and page 71
On the board, write 2
T: " 在 **71** 页上用方块来显示这个数字。2 少 0 是几个方块？ 少 0 的另一个表达方式是什么？ 告诉你旁边的同学。"
Either draw cubes on the board, or project you page so the class can see. Write 2-0= Do not take away any cubes.
T: "在你纸上 0 的旁边写 **2-0= 2**。现在请从 2 开始然后做出少 1。你减掉几个方块？ 请把减掉的方块举起来。"
S: will hold up one cube
T: "还剩下几个方块？ 用手指比给我看"
S: will hold up one finger
T: "现在请写下 **2-1=1**. 现在请做 2 少 2。你的纸上还有方块吗？ 用大拇指比给我看。"
S: will use thumbs to answer, no
T: 把算式写在纸上。少 0, 少 1 和少 2 跟减法有什么关系？

Guided Practice: (8 minutes)
T: "现在换你跟同学练习了。丢数字方块来看要把几个方块放在纸上的空格里，然后写下少 0,1 或 2。"
S: will practice with partners, doing number 2-4.

Use the modeling cycle:
Teacher Does:
T: "现在看第 72 页。把手指放在第一题上。"
S: Students will point to number 1
T: "我们会从减法算式画一条线到少 0,少 1 或少 2 然后找出答案。 **5-2=** " Draw a line to the 2 less than. "**5 少 2** 是三。请写下 3。"
S: will write in 3.
T: " 第 **2-5** 题很相似，但是从第 6 题开始，题目只给你减法算式然后你需要找出答案。你如果需要可以用方块。"

2 Students Do with Teacher:
T: "现在我需要 2 个学生来帮忙。"
S: two students will come up and lead the class in doing number 6

Independent Practice: (7 minutes)
T: "现在换你自己做了。请做到第 17 题。"

S: will work independently

Walk around the room watching how students are using their cubes.

Closing: (5 minutes)

Pass out half-sheets of paper

T:"我来把一个应用题念给你听。在纸上画图来显示你怎么解答问题的，然后写下减法算式并解答。**Matt** 和 **Mo** 在玩石头。**Mo** 有 **4** 个石头。Matt 少她 2 个。Matt 有几个石头？"

S: will draw

T: Check student's responses for understanding

Assessment:
Half-sheet of paper response