

Grade 1	Lesson: 2-9 Connecting Addition and Subtraction	Reference to English
Math Standard(s): 1.OA.6		Domain: Operations and Algebraic Thinking
Content Objective(s):		Language Objective(s):
Students will write related addition and subtraction facts. 我可以写出相关的加法和减法算式。		Students will addition and subtraction sentences. 我可以说出加法和减法算式...
Essential Understanding: Addition and subtraction have an inverse relationship. The inverse relationship between addition and subtraction can be used to find subtraction facts; every subtraction fact has a related addition fact.		Academic Vocabulary: Listen: 一样, 不一样, 一共 Read: Write: Speak: 不一样, 顺序 Sentence Frame:
Materials: <ul style="list-style-type: none"> • Two-color counters (6 per pair) • Whiteboards and dry erase markers • Guided Practice page 74-75 • Problem Solving page 76 		Language and Word Wall: 加法, 减法, 减, 加, 等于
Lesson: Connecting Addition and Subtraction		Instructional Time: 45 minutes

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Opening: (4 minutes)

T: "You have learned how to add and subtract numbers. Today, you will learn how addition and subtraction facts are related."

- Draw a large square on the whiteboard. Draw a line down the middle of the square to divide it into two equal parts. Draw 3 counters in one box and 2 counters in the other box.
- Pass out white boards, markers and erasers.

T: "How many counters are there in all?"

S: will say "5".

- Write a number 5 above the two boxes on the whiteboard. Then cover the group of 3 counters

T: "What subtraction sentence could you write? Please write it on your board."

S: will write, " $5 - 2 = 3$ ".

T: "Now, say the subtraction sentence with me."

S: will say " $5 - 2 = 3$ ".

- After the children have helped you write a subtraction sentence, reveal the hidden counters to check the answer.

Introduction to New Material (Direct Instruction): (10 minutes)

- Distribute the counters to the children.

T: "I am going to add one more counter to the box that has 3 counters."

- Draw 1 more counter on the model on the board, so that it shows 4 counters on one side and 2 counters on the other side.

- Have the students model the picture on the board with their counters.

T: "I want you to draw the two boxes on your board. Put the same number of counters in the boxes, like I did."

S: will draw the two boxes and put counters in each box to match the one on the board.

T: "How many counters do I have in this box now?"

S: will say "4".

- Write a number 6 above the two boxes on the whiteboard.

T: "What addition sentence could you write for these counters? Please write it and then share it with your neighbor."

S: will write and say " $4 + 2 = 6$ " to their neighbor.

T: "Read the addition sentence with me."

S: will say "4 plus 2 equals 6."

T: "Cover the 2 counter on the model."

- Cover the 2 counters on the models on the whiteboard.
- Have the students cover the group of 2 counters on their model.

T: "What subtraction sentence does this make? Write it down and tell your neighbor."

S: will write and say " $6 - 4 = 2$ " to their neighbor.

T: "Now cover the 4 counters on the model."

- Cover the 4 counters on the models on the whiteboard.
- Have the students cover the group of 4 counters on their model.

T: "What subtraction sentence does this make? Write it and tell your neighbor."

S: will write and say " $6 - 2 = 4$ " to their neighbor.

T: "Look at the subtraction sentences. Look at the addition sentences. How are they the same?"

S: will say, "same numbers."

T: "How are the sentences different from each other?"

S: will say "numbers in different order" or "plus or minus signs"

Guided Practice: (15 minutes)

Use the modeling cycle:

Teacher Does:

T: "Let's look at another problem. I am going to draw 1 counter in the first box. You do the same."

- Draw 1 counter in the first box on the whiteboard.
- Have the students model the picture on the whiteboard with their counters.

T: "I am going to draw 6 counters in the second box. How many counters are in the second box?"

S: will say "6".

T: "Good, you draw 6 counters in the second box too."

T: "How many counters are in the two boxes altogether? Tell your neighbor."

S: will say to their neighbor, "7"

- Write a number 7 above the two boxes on the whiteboard.

Assessment:

Guided Practice

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