

Number Pairs, Addition, and Subtraction to 10

SUPPORT TOWARD MASTERY

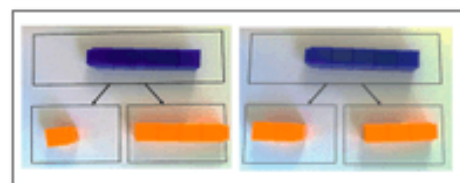
Use the following list of activities from the curriculum with students who need additional support to master the key concepts in the checklist and cards. Employ the help of instructional support staff, classroom volunteers, or older students to facilitate some of these activities.

Compositions/Decompositions and Addition (Topics A, B, C, E, F, H)

In most of the activities below, the number of objects, pictures, or numerals can be adjusted to focus on the intended key concept. When you use a template, Problem Set, or homework activity, consider placing it in a personal whiteboard so students may practice several times with the same materials.

Composes and decompose numbers up to 10 with objects and pictures [K.2(L)]

- **Module 1 Lesson 9 Concept Development**—Use **hidden partners template** with linking cubes for students to practice composition and decomposition of numbers 2–10 with objects.
- Module 1 Lesson 9 **Problem Set** and **Homework**—Works with totals up to 5.
- Module 4 Lesson 1 Fluency: **Making 3, 4, and 5 Finger Combinations**
- Module 4 Lesson 8 Fluency: **Snap**—Modify this fluency to use 3–10 cubes.
- Module 4 Lesson 13 Fluency: **Draw More to Make 6**—(Extend activity by making the following templates: Draw More to Make 5, 7, 8, 9, 10.)
- Module 4 Lesson 32 **Fluency Template 1: Break Apart Numbers**—Ask students to name the parts and whole in each number bond.

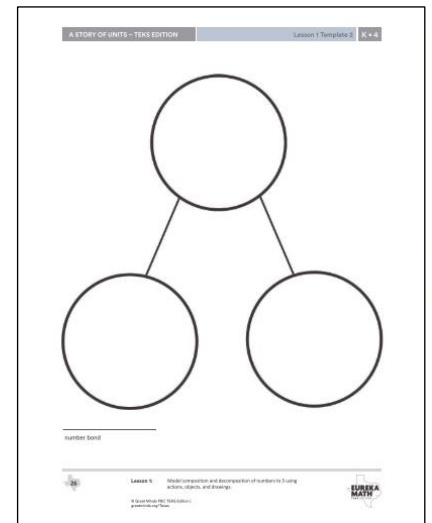


Module 4 Lesson 9
Hidden Partners Template

Solve word problems using objects and drawings to find sums up to 10 and differences within 10 [K.3(B)]

Throughout the following activities, encourage students to identify the parts and whole.

- Module 4 Lesson 1 **Template 2**—Give students the number bond template and 3–10 bear counters (or any other type of counters or small toys). Have students practice telling stories to themselves while moving the counters in the number bond. Model first if necessary.
- Module 4 **Lesson 1** and **Lesson 2** Problem Set and **Lesson 1** and **Lesson 2** Homework—Before using these pages, cut off the instructions and verbally walk students through the directions step by step.
- **Module 4 Lesson 17 Template**—Using the tree and sun template, dictate bird addition scenarios with totals 4–10. Students draw representative shapes (e.g., circles, triangles, or dots for birds) to practice addition.

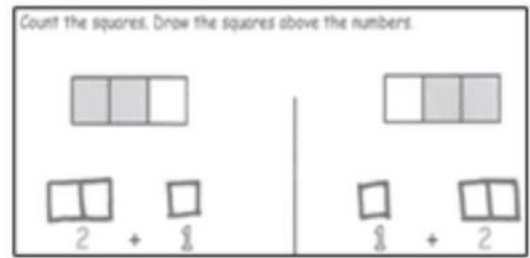


**Module 4 Lesson 1
Number Bond Template**

Solve word problems using objects and drawings to find sums up to 10 and differences within 10 [K.3(B)]

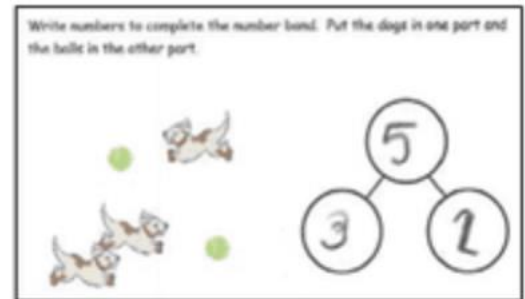
Throughout the following activities, encourage students to identify the parts and whole.

- Module 1 Lesson 11 Problem Set**—This activity supports addition expression understanding by having students draw squares above the numerals in the expressions. Students are not asked to write equations or numerals. Students may use linking cubes instead of or in addition to drawing squares.



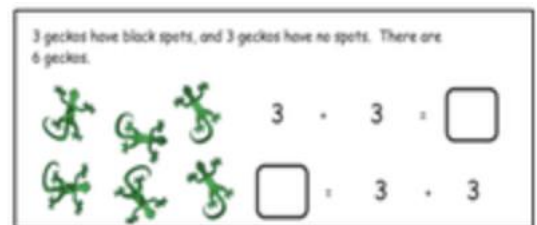
Module 1 Lesson 11 Problem Set

- Module 4 **Lesson 3, Lesson 4,** and **Lesson 5** Problem Sets and **Lesson 3, Lesson 4,** and **Lesson 5** Homework—Concrete pictures (e.g., dogs and balls) help students identify what each numeral in the number bond represents. As students transition from concrete to abstract numeral representation, help them connect the representations by asking, “What does the 3 tell us about?” and “What does the 2 tell us about?”.



Module 4 Lesson 3 Problem Set

- Module 4 **Lesson 13, Lesson 14, Lesson 15, Lesson 16, Lesson 17,** and **Lesson 18** Problem Sets and **Lesson 13, Lesson 14, Lesson 15, Lesson 16, Lesson 17,** and **Lesson 18** Homework—Show some example number sentences with the total at the beginning and some with the total at the end. This encourages students to think flexibly and to better understand the meaning of the equal sign.




Module 4 Lesson 13 Problem Set

Solves word problems using objects and drawings to find sums up to 10 and differences within 10 [K.3(B)]

- Module 4 **Lesson 16, Lesson 17,** and **Lesson 18** Problem Sets and **Lesson 16, Lesson 17,** and **Lesson 18** Homework—Read the problems aloud and have students use manipulatives or drawings to solve. To reinforce addition concepts, consider having students say what the numbers refer to and explain why the numerals are in different places in the number sentences.

Listen and draw. Charlotte is playing with pattern blocks. She has 3 squares and 3 triangles. How many shapes does Charlotte have?



3 + 3 = 6
6 = 3 + 3


Module 4 Lesson 17 Problem Set

- Module 4 **Lesson 33, Lesson 34, Lesson 35, Lesson 36,** and **Lesson 37** Problem Sets and **Lesson 33, Lesson 34, Lesson 35, Lesson 36,** and **Lesson 37** Homework—Read the problems aloud and have students use manipulatives or drawings to solve. Encourage students to use models like 5-groups and the number path to support understanding and explain their thinking.

Listen to each story. Show the story with your fingers on the number path. Then, fill in the number sentence and number bond.

1	2	3	4	5	6	7	8	9	10
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Joey had 5 pennies. He found 3 pennies in the couch. How many pennies does Joey have now?



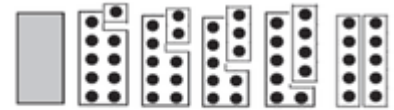
___ + ___ = ___

Module 4 Lesson 37 Homework

Model the action of joining to represent addition and the action of separating to represent subtraction 9 [K.3(A)]

- Module 4 Lesson 1 **Fluency Template 1: 5-Frames: Counting Dots and Spaces**—Extend this activity to use frames up to 10.
- Module 4 Lesson 25 Fluency: **5-Group Flashes**—Modify this activity by using a set of 10 10-frames with 0–9 dots. Instead of asking, “How many more to make 5?,” ask, “How many more to make 10?”

- Module 4 Lesson 32 **Fluency Template 2: 5-Group Puzzles**—Consider extending this activity by asking students to say the two numbers that make 10. The activity may also be extended by using a number bond with 10 written as the whole and having students either place the puzzle pieces or write the numbers in the parts.

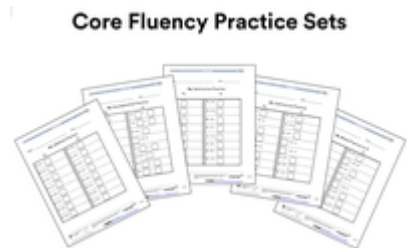


Module 4 Lesson 32 5-Group Puzzles

- **Module 4 Lesson 32 Extra Practice**
- **Module 4 Lesson 39 Problem Set**
- **Module 4 Lesson 40 Practice Sheet**—Using a stick of 10 linking cubes, students break off one cube at a time and record the combinations of 10 on the practice sheet.

Solve word problems using objects and drawings to find sums up to 10 and differences within 10 [K.3(B)]

By the time students leave Kindergarten, they should know all the addition facts within 5 without delay or hesitation arising from using counters, fingers, written marks, or other counting methods. Many of this module’s support activities focus on addition within 5. Use Core Fluency Practice Sets A, B, and E to test for the automaticity this standard requires.



Core Fluency Practice Sets

- Module 4 Lesson 29 Fluency: Core Fluency Practice Sets **A, B, and E**

Subtraction (Topics A, B, D, E, G, H)

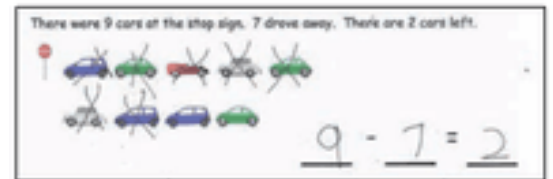
Solve word problems using objects and drawings to find sums up to 10 and differences within 10 [K.3(B)]

- Module 4 Lesson 19 Fluency: **Building 1 More and 1 Less Towers** (can be used with totals up to 10)
- **Module 4 Lesson 19 Concept Development**—Sing the song “Five Little Monkeys Jumping on the Bed,” using fingers or cubes to represent the monkeys. Begin with any total up to 10 and adapt the activity to subtract an appropriate number

of monkeys each time. For example, “8 little monkeys jumping on the bed, 2 fell off and bumped their heads ...”

- Module 4 Lesson 21 Fluency: **Hide and See**
- Module 4 Lesson 24 Fluency: **Take Apart Groups of Circles**

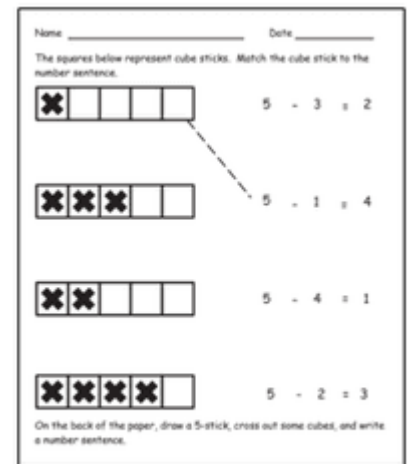
- Module 4 Lesson 33 **Problem Set** and **Homework**—Place the paper inside a personal whiteboard. Extend the activity by reusing the drawings and asking students to take away a different number of cars each time. Model writing the number sentence for each story.



Module 4 Lesson 33 Problem Set

Solve word problems using objects and drawings to find sums up to 10 and differences within 10 [K.3(B)]

- Module 4 **Lesson 19, Lesson 20, Lesson 21, Lesson 22, and Lesson 23** Problem Set and **Lesson 19, Lesson 20, Lesson 21, Lesson 22, and Lesson 23** Homework—When using these pages, choose the one that provides just enough support for success. The example to the right provides a lot of support as students are matching only. If using this page, consider having students identify what each of the numbers in the equation refers to.

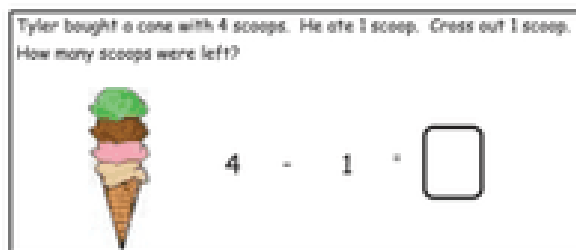


Module 4 Lesson 20 Homework

- **Module 4 Lesson 34 Problem Set** (page 1)—For a more independent activity, remove the story situation in each problem and have the students fill in the equation and the number bond based on the picture alone.

Solve word problems using objects and drawings to find sums up to 10 and differences within 10 [K.3(B)]

- **Module 4 Lesson 21 Problem Set**



Module 4 Lesson 21 Problem Set

- **Module 4 Lesson 33 Concept Development**—Repeat the three problems of the Concept Development. Change the number of objects being used to repeat the activity numerous times.
- Module 4 **Lesson 33, Lesson 34, and Lesson 35** Problem Set and **Lesson 33, Lesson 34, and Lesson 35** Homework

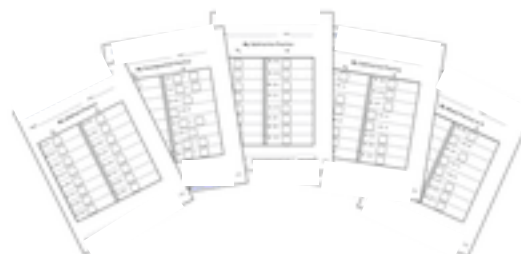


Module 4 Lesson 33 Concept Development

Solve word problems using objects and drawings to find sums up 10 and differences within 10 [K.3(B)]

By the time students leave Kindergarten, they should know all the subtraction facts within 5 without delay or hesitation arising from using counters, fingers, written marks, or other counting methods. Many of this module's support activities focus on subtraction within 5. Use the Core Fluency Practice Sets C, D, and E to test for the automaticity required by this standard.

Core Fluency Practice Sets



- Module 4 Lesson 29 Fluency: Core Fluency Practice Sets **C, D, and E**