Bridges in Mathematics Kindergarten Unit 3 Bikes & Bugs: Double, Add & Subtract

In this unit your child will:

- Count by 2s to 20
- Explore even numbers as doubles
- Add 1 and subtract 1 to numbers from 1 to 10
- Compare and order numbers from 1 to 10
- Write equations to show sums up to 5





1 Parents and teachers may reproduce this document for classroom and home use.

Kindergarten Unit 3: Bikes & Bugs: Double, Add & Subtract

PROBLEM	COMMENTS
Count the cubes in each train. Which train is longer?	Students play the game Grab Bag More or Less. Partners take turns grabbing cubes out of a bag, counting them out, and putting the cubes together to make a train. By lining up the trains of cubes, they can see which is greater and which is less. Some students may even say exactly how many more or less one quantity is compared to the other. Being able to count forward from a number other than 1 is a skill kindergarteners will practice this year. Even when children are able to count accurately, putting numbers in order may be challenging. They might need to refer to a number line or the charts printed on homework assignments to check their answers and to practice writing numbers correctly.
Write the numbers in order from least to most.	
3 Trace the numbers Then wr te them again in order from least to most	
• 5 6 4 4 5 6	
• 8 6 7 6 7 8	
· + 2 3 2 3 +	
Two students brought their bicycles to school. Then 1 more student brought her bicycle to school. How many bicycles are there in all?	In this example, the student has placed 2 cubes on the ten-frame counting mat to show 2 bikes, and then she added 1 more cube to represent the additional bike.
Numbers to Ten Counting Mat. Ten Frame Side Image: Counting Mat. Ten Frame Side <td< td=""><td>The teacher models how to write the equation to show the two parts that were added together to make a whole new set. The number symbols represent the concrete objects students have been working with. You may notice that the equation is written two ways. The teacher is emphasizing that both sides of the equal sign have the same value. Students learn that equal means the same as.</td></td<>	The teacher models how to write the equation to show the two parts that were added together to make a whole new set. The number symbols represent the concrete objects students have been working with. You may notice that the equation is written two ways. The teacher is emphasizing that both sides of the equal sign have the same value. Students learn that equal means the same as .
"2 + 1 is the same as 3." "3 equals 2 + 1."	

FREQUENTLY ASKED QUESTIONS ABOUT UNIT 3

Q: Why is there an emphasis on counting by 2s?

A: Counting by 1s, then 2s, 5s, and 10s helps children understand that the quantity stays the same whether it's counted by 1s or in groups. While some students may be able to count by 2s from memory, they may not understand how counting by 2s is connected to quantities, doubles, and even numbers. Once it's understood, counting by 2s is a way to solve many problems more efficiently. Many students learn the easy addition doubles facts (2 + 2, 3 + 3, 4 + 4) through counting by 2s.

Q: My child writes some numbers backward. Should I be concerned?

A: Kindergarteners are just learning to form their numbers correctly. For many, the hand-eye coordination necessary to look at a number (or letter) and write it with a pencil or marker is still developing. Some children may not realize that the orientation of the number is important. If your child reverses a number, kindly point to the number and show them how to form the numeral correctly. The Salt Box Numerals Home Connection activity sent home during Unit 1 offers appropriate practice with writing numbers throughout the kindergarten year. The numeral writing rhymes from Unit 1 and Unit 2 can also be helpful reminders.