## Bridges in Mathematics Kindergarten Unit 2 Numbers to Ten

In this unit your child will:

- Quickly recognize how many objects are in a collection (up to 5) without counting
- Compare sets using the words more and less
- Develop number sense with
 combinations that make 5, and then 10
- Count objects and match the quantity to the written numeral


## - Build with two-dimensional shapes

Your child will learn and practice these skills by solving problems like those shown below. Keep this sheet for reference when you're helping with homework.

| PROBLEM |
| :--- | :--- |
| How many red dots? Show |
| me on your fingers. How |
| many blue dots? Show me |
| with the fingers on your other |
| hand. How many in all? |
| How many dots do you see? |
| How do you see it? | | Five- and ten-frames help students develop number sense. The |
| :--- |
| frames help them make mental pictures of numbers in various ways. |
| On the first card, students see that 5 is made up of 2 red dots and |
| 3 blue dots. Many children can recognize 2 and 3 without having to |
| count each dot. They might also know that when the whole row is |
| filled, we have 5. |


| PROBLEM | COMMENTS |
| :---: | :---: |
| Show 8 with tally marks. <br> "I can make 8. It's 1, 2, 3,4 , and 5 makes the gate. I have 5 and 3 more. So, $5 \ldots 6,7,8 .{ }^{\prime \prime}$ <br> How many do you see on the ten-frame? <br> Put a marker on the number on your bingo card that shows 8. | The frames, number rack, and tally mark models in this unit help students think about numbers between 5 and 10 as " 5 and some more." For example, 6 can be seen as a group of 5 and 1 more. <br> 6 <br> 8 <br> 9 <br> Students also match quantities with numbers. |
| Use pattern blocks to fill in the design. | Students build with two-dimensional shapes, learning the shape names and attributes. They begin to find that, like puzzles, shapes can fit together to make a new shape. |

## FREQUENTLY ASKED QUESTIONS ABOUT UNIT 2

Q: Why is there an emphasis on seeing groups instead of counting by 1 s ?
A: The ability to quickly recognize groups less than 5 helps students develop an understanding of quantity. First we build the model with counters they can hold in their hands, then we use cards to illustrate the model they made, and finally we ask children to picture it in their minds. This progression from the concrete to the abstract helps develop efficient strategies for computation, such as counting on to add (" $5+3$ is $5 \ldots 6,7,8$ ").
 Some kindergarteners will continue to count by 1 s as they develop their counting skills early in the year.

## Q: Why are games used for homework?

A: Children enjoy playing games, which give them the repeated practice they need to master new skills. Games offer a positive experience with math. In most cases, the Home Connection games, or similar ones, have been played in class. Ask your child to explain how to play the game. This will not only make him feel important, but it will also give you an idea of his understanding of the concepts. If your child seems hesitant or confused, spend a little time reviewing the written directions provided before playing the game. Most important, have fun together as you help your child develop important math vocabulary and skills.

This chart shows how number writing is taught at school for numerals 6-10. You may want to refer to it when helping your child write numbers at home.

| Down around <br> in a circle you go. <br> That's a 6 <br> just as you know! | Slide to the right. <br> Then slant the line. <br> That makes 7 <br> every time! | Man $\mathrm{S"}$ <br> but do not wait. <br> Slant back up <br> to make an $8!$ |
| :--- | :--- | :--- | :--- | :--- |
| and then 0 |  |  |
| That makes 10! |  |  |
| Now you know. |  |  |
| and add a line. |  |  |
| Now you've made |  |  |
| number 9! |  |  |

