



SCOTT FORESMAN Investigations

IN NUMBER, DATA, AND SPACE®

As a way to become familiar with this unit:

- Read the selections
- Try/think through the Activities
- Review the Assessment opportunities
- Do the end-of-unit assessment tasks

Measuring and Counting

This unit is the 4th of 7 units in Kindergarten. It is part of the K-5 number and operations strand, and is the 2nd of 3 units that focus on measurement, the number system, and addition and subtraction at this grade. This unit builds on the work of the previous unit in this strand. Before teaching this unit, perhaps after working through this *Where to Start*, read *Mathematics in This Unit*, p. 12.

Investigation 1: Measuring and Counting

These pages provide an overview of this Investigation:

- Mathematical Emphases (p. 23)
- Investigation 1 Planner (pp. 24 & 26)

The following activities and information support the key math ideas:

- Teacher Note: Learning about Length: Lining Up Units (p. 169)
- Activity: Introducing Measuring with Sticks (p. 39)
- Dialogue Box: Measuring with Sticks (p. 181)

Investigation 2: Counting Some, Counting More

These pages provide an overview of this Investigation:

- Mathematical Emphases (p. 53)
- Investigation 2 Planner (pp. 54 & 56)

The following activities and information support the key math ideas:

- Activity: Introducing *Collect 10 Together* (p. 66)
- Discussion: *Roll and Record 2* (p. 78)
- Activity: *Quick Images*: Ten-Frames (p. 81)

Preparation

- Materials to Gather and Prepare (pp. 25, 27, 55, 57, 87, 89, 123, 125, 127)
- Review the logistics of Introducing Math Workshop Activities (p. 34)
- Learn game variations: *Grab and Count 2 Handful* (p. 59), *Roll and Record 2* (p. 77), *Build On* (pp. 72), *Build It/Change It* (p. 114) and *Double Compare* (p. 105)
- Plan for the End-of-Unit Assessment (Teaching Note, p. 161)

Assessment

- Assessment in This Unit (p. 16)
- Teaching Notes about Assessment Opportunities (pp. 30, 50, 62, 75, 102)
- Teaching Notes about Assembling a Portfolio (pp. 36, 78, 160)
- Teacher Note (p. 176)
- End-of-Unit Assessment Activities (pp. 163, 166)

Practice & Review

- Classroom Routines (p. 20)
- Practice and Review (p. 21)

Investigation 3: Changing Quantities: How Many Now?

These pages provide an overview of this Investigation:

- Mathematical Emphases (p. 85)
- Investigation 3 Planner (pp. 86 & 88)

The following activities and information support the key math ideas:

- Activity: Introducing *Racing Bears* (p. 91)
- Activity: Three Story Problems (p. 96) and Discussion: More or Less at the End? (p. 111)
- Activity: Introducing *One More, One Fewer* (p. 101)
- Discussion: Who Has More? (p. 119)

Investigation 4: Ways to Make Numbers

These pages provide an overview of this Investigation:

- Mathematical Emphases (p. 121)
- Investigation 4 Planner (pp. 122 & 124 & 126)

The following activities and information support the key math ideas:

- Activity: Introducing Six Tiles in All (p. 129)
- Activities: Introducing *Quick Images*: Square Tiles (p. 135) and *Quick Images* in Pairs (p. 149)
- Discussions: Tossing Six Chips (p. 155) and Different Arrangements of Six (p. 158)

Teacher Notes and **Dialogue Boxes** are important sources of information about mathematics content and about students' thinking about mathematical ideas. Each time you teach this unit, you can read more of this information.