



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

## Growth Patterns

This unit is the 8<sup>th</sup> of 9 units in fifth grade. It builds on the work of the previous units in the K-5 patterns, functions, and change strand. Before teaching this unit, perhaps after working through this *Where to Start*, read *Mathematics in This Unit*, p. 10.

### Investigation 1: Height and Growth

These pages provide an overview of this Investigation:

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

The following activities and information support the key math ideas:

- Activity: Growth Stories: Tara and Nat (p. 29) and Discussion: Comparing Tara and Nat (p. 34)
- Teacher Note: Understanding Line Graphs (p. 115)
- Activity: Animals' Growth (p. 42) and Discussion: How Tall at Age 100? (p. 44)
- Teacher Note: Situations with a Constant Rate of Change: Linear Functions (p. 118)

### Investigation 2: Growing Patterns

These pages provide an overview of this Investigation:

- Mathematical Emphases (p. 61)
- Investigation 2 Planner (pp. 62 & 64)

The following activities and information support the key math ideas:

- Activity: 3 Tiles Across (p. 67) and Discussion: Using Symbolic Notation (p. 69)
- Activity: Double or Not? (p. 78) and Discussion: Double or Not? (p. 81)

### Preparation

- Materials to Gather and Prepare (pp. 25, 63, 65)

### Assessment

- Assessment in This Unit (p. 16)
- Assessment Activity (p. 52) and Teacher Note (p. 125)
- End-of-Unit Assessment Activities (p. 112) and Teacher Note (p. 133)

### Practice & Review

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

Grade 5 Unit 8

- Activities: Introducing Penny Jar Situations (p. 98) and Penny Jar Problems (p. 99)
- Discussion: Comparing Penny Jars (p. 100)
- Teacher Note: When the Rate of Change Is Not Constant (p. 130)

**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.