



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

How Many Floors? How Many Rooms?

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

Investigation 1: Growing Patterns: Ratio and Equal Groups

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:

- Activity: Introducing Cube Buildings (p. 29)
- Discussion: Sharing Solutions for 10 Floors (p. 33)
- Activities: Introducing Tables (p. 38)
- Discussion: Ways to Find the Total Number of Rooms (p. 41)
- Activity: Covering Hexagons (p. 62)
- Math Workshop: Mystery Shapes and Floor Plans (p. 65)
- Teacher Notes: Equal Groups and Ratios (p. 105) and Using and Interpreting Tables (p.107)

Investigation 2: Repeating Patterns and Number Sequences

These pages provide an overview of this Investigation:

- Mathematical Emphases (p. 73)
- Investigation 2 Planner (p. 74)

The following activities and information support the key math ideas:

- Activity: Introducing the Number Strip (p. 80)
- Discussion: Counting by 2's: Even and Odd Numbers (p. 83)

Preparation

- Materials to Gather and Prepare (pp. 25, 27, 75)

Assessment

- Assessment in This Unit (p. 14)
- Assessment Activity (pp. 57, 68, 70)
- End-of-Unit Assessment Activities (p. 102) and Teacher Note (p. 114)

Practice & Review

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

Grade 2 Unit 5

- Discussion: How is Red-Blue-Brown-Green like Yellow-Black-White-Orange? (p.98)
- Teacher Note: Repeating Patterns (p. 113)
- Dialogue Box: Counting by 3's (p. 128)

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.