



# 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

## Blocks and Boxes

This unit is the 9th of 9 units in first grade. It is part of the K-5 geometry strand, and is the 2<sup>nd</sup> of 2 geometry units at this grade. This unit builds on the work of the previous units in this strand. Before teaching this unit, perhaps after working through this *Where to Start*, read *Mathematics in This Unit*, p. 10.

### Investigation 1: Comparing and Constructing 3-D Shapes

These pages provide an overview of this Investigation:

- Mathematical Emphases (p. 17)
- Investigation 1 Planner (pp. 18 & 20)

The following activities and information support the key math ideas:

- Activity: Introducing Geoblock Footprints and Copying Cube Things (p. 24)
- Activity: Block Pictures (p. 35) and Discussion: Block Pictures (p. 37)
- Discussion: Blocks in a Sock (p. 46)
- Activities: How Many Faces? (p. 51) and Making Boxes with Cards (p. 52)
- Teacher Note: Students Make Their Own Boxes (p. 111)
- Dialogue Box: Comparing Blocks to Pictures (p. 117)

### Investigation 2: Building a Block Town

These pages provide an overview of this Investigation:

- Mathematical Emphases (p. 63)
- Investigation 2 Planner (pp. 64 & 66)

The following activities and information support the key math ideas:

- Activities: Introducing Geoblock Buildings (p. 69) and Discussion: Drawing Geoblock Buildings (p. 70)

### Preparation

- Materials to Gather and Prepare (pp. 19, 21, 65, 67)
- Review the logistics of Making Boxes with Cards (pp. 20, 21, 52-54)
- Homework: Students need their Mystery Boxes from home for Session 1.6 (p. 38) and Teaching Notes (pp. 43, 48)

### Assessment

- Assessment in This Unit (p. 12)
- Assessment Activities (pp. 41, 45) and Teacher Note (p. 109)
- End-of-Unit Assessment Activities (p. 104) and Teacher Note (p. 115)

### Practice & Review

- Classroom Routines (p. 14)
- Practice and Review (p. 15)

Grade 1 Unit 9

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| <ul style="list-style-type: none"><li>• Activities: Robot Paths in the Classroom (p. 93) and Introducing Paths Through Town (p. 95)</li><li>• Teacher Note: Students Draw in 3-D (p. 113)</li><li>• Dialogue Box: Making It Look 3-D (p. 121)</li></ul> |  |
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**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.