

# Symmetry Rules!

Literacy Level 24 • Maths Level 3 • Geometry and Measurement

Wise Up!



Inquiry Learning  
for Years 5 and 6

## Inquire to Learn!

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There are many ways in which *Symmetry Rules!* can be used as a base for Inquiry Learning. This is just one suggestion. The importance of symmetry to flying animals could be incorporated into a science unit.

### Literacy Achievement Objective:

Recognize and understand the connections between oral, written, and visual language.

### Specific Literacy Learning Outcome:

Use illustrations to help understand the text.

### Numeracy Achievement Objective:

Describe different types of symmetry.

Represent and describe the results of reflection, rotation, and translation on shapes or patterns.

### Specific Numeracy Learning Outcome:

Understand symmetry.

### Additional Achievement Objective –

#### The Arts: Visual Arts

Explore art-making conventions in relation to symmetry. (Level 3)

### Specific Visual Arts Outcome:

Understand that symmetry is often an important element in art, design, and architecture.

**Session 1:** Using the Big Book, share-read *Symmetry Rules!*, stopping at natural points for discussion. Draw on the students' prior knowledge of symmetry.

**Session 2:** Using the Big Book, work through the Literacy Focus questions. Guide the students towards achieving the Specific Literacy Learning Outcome.

### Literacy Focus:

1. *Comprehension:* Ask: Where does the Line of Symmetry go? [It always goes through the middle of a symmetrical shape. (page 4)]
2. *Visual Literacy:* Ask: Why does this book have so many illustrations? [Illustrations are the simplest means of showing what symmetry is.]
3. *Vocabulary:* Ask: Do you know what *antennae* means? (Page 2) How do you know? [Answers will vary, but may include reference to the illustration of antennae. Could discuss the role of illustrations in helping to clarify the meaning of words in the text.]

**Session 3:** Using the Small Books, have the students reread *Symmetry Rules!* Model answering the Wise Up! on page 4. In their maths groups, have the students answer the Wise Up! questions on pages 6, 7, 9, 13, 15, 18, and 20. Help individual groups as necessary.

**Session 4:** Have the students work on their own to complete the challenges on pages 5, 11, 13, 17, and 24.

### Inquiry Learning Extension:

1. Have the students complete the challenge on page 15 on their own at home.
2. Have the students complete the Artful Symmetry activity on page 5.