

Geometry in the Real World

MATH



Book Builder

Overview

Students photograph shapes they find around them and build a field guide to geometry in their own environment.

Steps for Teachers

1. Review the shapes or solids being studied and their defining properties
2. Students hunt for real examples around the school, home or playground
3. Students photograph each example and add the cut-out to its own page
4. Students label each page with the shape's name and the property that proves it
5. Students group the pages so all examples of one shape sit together
6. Students make page one a title page and page two a contents list of every shape in the book
7. Students swap tablets and check each other's classifications

Example

A student's guide has a page for the hexagon showing a photograph of the bathroom floor tiles, labelled 'Hexagon – six straight sides, six corners, all sides the same length.' The rectangle section includes a door, a book and a whiteboard.

Grading Rubric

Criteria	Excellent	Proficient	Developing
Classification Accuracy	Every example is correctly identified and the stated property is the right one	Most examples are correct with a misclassification or two	Several examples are misidentified
Property Reasoning	Each label explains WHY the object is that shape, not just its name	Labels name the shape and sometimes explain	Labels name shapes without reasoning
Range of Examples	Examples are varied and go beyond the obvious	Examples are correct but predictable	Examples repeat the same object type
Book Craft	Text is easy to read, art supports every page, and the layout is consistent throughout	Pages are readable with some crowding or uneven placement	Text overlaps art or is hard to read; layout is inconsistent