Exploring Pyramids Around the World

Grade 3

5 skill lessons · 3 math-through-reading

Skill lessons

5 lessons on the mathematics the book carries. Printable workbook pages are currently available for 5 of 5 lessons; separate teacher keys are available for 3 of 5.

1. From Flat Paper to a Standing Pyramid
Representation · Measuring and drawing a square base with four triangular faces, then folding it into a solid

2. Count What Meets: Faces, Edges, and Vertices
Concept · Naming and counting the faces, edges, and vertices of a square pyramid

3. Fourteen, Twelve, Ten: The Step Pyramid Count
Fluency · Subtracting within 20 to build and order a run of square sizes that falls by twos

4. Is 853 Almost Twice 480?
Reasoning · Adding and subtracting within 1000 to test a comparison the text states

5. Two Bases, Two Sizes
Application · Measuring, comparing and covering two square bases given in inches and half inches

Math through the reading

The mathematics is reached through a sentence the book prints: change one word in the reading and the numbers change with it. These carry their own standards, matched against these lessons rather than inherited from the skill ones.

6. The Word That Takes Two Inches
Integrated · Students cut two inner squares from the same fourteen-inch square, one following each side and one following one side, and use the book's own next measurement to decide which word the builder meant.

7. The Number That Is Not on the Page
Integrated · Students supply the triangle height for the Trans-America model, which the book never states, by reading the two sentences that send them back to the great pyramid instructions and doubling the number they find there.

8. Three Hundred Seventy-Three Feet, Said Both Ways

Integrated · Students compute the exact difference between the two heights the book sets side by side and state the relation in both directions over a single diagram, then do the same with two measurements they cut themselves.

Reading and language lessons

5 lessons on the reading and language the book carries - what a word means in its sentence, how a character is shown, how a text is built. No mathematics: these are matched against the English language arts curricula, which are a different and smaller set than the mathematics ones.

9. What the book stops to tell you

Vocabulary · Using a text's own definition sentences to fix the meaning of a domain word

10. Two pyramids, one chart

Comprehension · Comparing what a text says about two subjects across separate sections

11. Seven moves, one order

Comprehension · Retelling the steps of a written procedure in order, using sequence words

12. One sentence for the whole section

Comprehension · Determining the main idea of a section and naming the details that support it

13. The writer asks, the book answers

Comprehension · Tracking the questions a writer poses and locating where the text answers them