

What's Your Angle, Pythagoras? A Math Adventure

Grade 3

5 skill lessons · 3 math-through-reading

Skill lessons

5 lessons on the mathematics the book carries. Each lesson has printable workbook pages and a separate teacher key.

1. Rows That Make a Square

Representation · Building squares from rows of unit tiles

2. Knots for Measuring

Application · Measuring side lengths with a unit students make

3. Side Times Side

Fluency · Multiplying a one-digit number by itself

4. Do the Two Numbers Agree?

Reasoning · Checking a sum against a separate count

5. Is That Corner Square?

Concept · Deciding whether a corner is a square corner

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. Times Itself, Plus Itself

Integrated · Students build the square that Pythagoras's rule sentence describes, swap one word in that sentence, build what the new sentence says beside it, and count both.

7. Was Saltos's Ladder Long Enough?

Integrated · Students take a side in the workmen's argument before they measure, build the wall and the ladder in cubes, measure what the leaning ladder reaches, then defend or change their position out loud with the number in it.

8. Say It Both Ways

Integrated · Students knot strips to the three side lengths the book gives, line two of them up, find the difference, and produce both directions of the comparison about the same pair.

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. Ancient Greece on the Page: Reading a Setting

Reading · Setting: Where and When a Story Happens

10. Stuck-Out Chests and Sighs: What Characters Do

Reading · Character Traits from Actions

11. One Word, Two Meanings: Reading 'Right'

Language · Multiple-Meaning Words in Context

12. First, Next, Then, Finally: Retelling the Search

Reading · Recounting a Story in Order

13. The Note After the Story: Reading Back Matter

Reading · Text Features: Back Matter and Notes