

Fibonacci Zoo

Grade 2

3 skill lessons · 3 math-through-reading

Skill lessons

3 lessons on the mathematics the book carries. Printable workbook pages and teacher keys are not available for this book yet.

1. The Rule That Builds the Next Exhibit

Concept · Adding two numbers to make the next in a row

2. Predict the Gorillas Before You See Them

Reasoning · Using a stated rule to predict and then check a count

3. Eli's Notebook, and Why the Order Matters

Representation · Keeping an ordered record of counts and reading it back

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.

4. The Three Words That Pick the Pair

Integrated · Eli's rule works only because of a phrase in the middle of it, and students prove that by running the rule with the phrase removed and watching the gorillas come out wrong.

5. Why Eli Could Not Have Met the Gorillas First

Integrated · The zoo's exhibits are generated by the ones before them, so students jumble the eight counts, find the exact place the rule breaks, and rebuild the only order it survives.

6. The Number the Zoo Never Shows You

Integrated · The book ends by asking how many animals are in the next exhibit and then closes without saying, and students produce the number together with the three sentences that force it.

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.

7. Then They Came To: Retelling a Visit in Order

Language · Retelling the Order of Events in a Story

8. Why Does Eli Keep Writing? A Character and His Notebook

Language · Working Out Why a Character Does Something

9. That Word Is Wrong: Reading Around a Printing Mistake

Language · Noticing a Word That Does Not Fit Its Sentence

10. Exactly 13! Reading a Line the Way a Character Said It

Language · Hearing a Character's Excitement in How a Line Is Written

11. Can You Guess? When the Book Turns and Asks You

Language · Recognising When a Book Speaks Directly to You