

Music Math

Grade 4

5 skill lessons · 4 math-through-reading

Skill lessons

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

1. Making Three Beats Out of a Measure

Concept · Adding halves and whole beats to a stated total

2. What a Dot Adds

Concept · Halving a stated value and adding the half back on

3. Filling a Measure That Must Come to Four

Application · Choosing parts that add to a required total

4. The Two Numbers Do Two Different Jobs

Representation · Reading a pair of numbers where each number answers a different question

5. The Measure That Is Split Across the Song

Reasoning · Joining two incomplete parts to make one complete whole

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 Tells You to Add Something

Integrated · Students find the four words this book uses to turn a note into an amount, act each one out with beat cards, and then test a swapped sentence that keeps the note names and loses the arithmetic.

7. The Measure the Book Never Adds Up

Integrated · The book lists the notes in measures 3, 7 and 15, asks whether they add to four beats, answers only yes, and never shows the sum; students recover it from three value sentences elsewhere in the book and say which sentence funded each part.

8. Is a Time Signature a Fraction or Not?

Integrated · The book says a time signature is different from a math fraction and also that music and math fractions have similarities; students take a side, fund it with beats they have counted, and argue it to the musician the book keeps addressing.

9. One Beat and Three Beats, Said Both Ways

Integrated · The book says the first and last measures together equal four beats and never says how the two compare to each other; students build both, say the comparison forward and then reversed, and supply the words the book does not.

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.

10. It is like a clock, and then it is like a recipe

Comprehension · Following an extended comparison a writer uses to explain an unfamiliar subject

11. The words this book stops to define

Vocabulary · Using a text's own defining sentences to fix the meaning of a technical word

12. What would happen without it

Reasoning · Explaining why something matters by reading what a text says would happen without it

13. The same rule, printed twice

Reasoning · Comparing two statements of the same rule and judging which one a reader can use

14. The writer knows what you are about to think

Comprehension · Noticing where a writer stops to correct a mistake the reader has not made yet