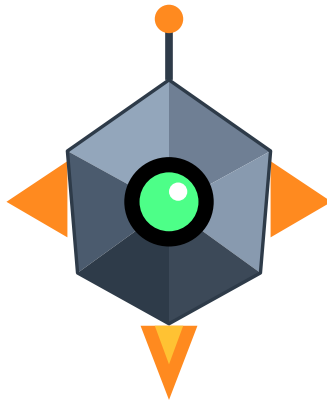


CURRICULUM OVERVIEW

One Year, Five Series

Forty-five short books for ages 9 to 11



MULTIX//HELLO

Five subjects, nine books each, read side by side in
nine units. I ride along in every one.

OVERVIEW

CHAPTER 1

The Five Series

STORY

Each series has a central question its nine books return to. Every book teaches the same habit: say what you actually have, and what would change your mind.

STEP 1 Mathematics

What stays true when we transform a problem? Nine books built around one running problem, 48×52 , and the circle, pop, redraw and refusal notation. Recurring questions: *What did we keep?* and *What makes this trustworthy?*

STEP 2 Science

How We Find Things Out. What evidence supports an explanation? Life, physical and Earth science, with household experiments. Recurring questions: *What did we actually observe?* and *What would change our minds?* A third, *What remains unknown?*, appears only when something truly is.

STEP 3 Spelling and Grammar

What Words Can Do. What happens to meaning when we change an expression? Spelling, grammar, meaning and revision. Recurring questions: *What changed when we changed the words?* and *How can we tell which version works?* Standard written English is taught as a convention for certain situations, never as a correction of home dialects.

STEP 4 Ecology

The World Between Living Things. How do relationships let living systems persist and change? Five places, a pond, woodland, meadow, shoreline and garden, recur across the books, with Atlantic Canadian examples. Recurring questions: *Who or what depends on this?*, *What changed, and what remained?* and *What haven't we counted?*

STEP 5 Problem Solving

A history of problems, from prehistory to the modern world. What did people try, under which constraints, and what did the solution change? Recurring questions: *What was the problem?*, *What could they try?* and *What did the solution change?*

OVERVIEW

CHAPTER 2

The Year Map



MULTIX//PACING

Nine units of four weeks each makes 36 weeks. In every unit, book *n* of each series is read together. That is about 40 short chapters per unit, or 10 a week, two per series.

UNIT 1 Weeks 1 to 4

Math
Science
Language
Ecology
Problems

A Useful Wrong Answer
The Thing We Didn't See
The Letter That Changed Everything
The Forest Under Our Feet
The Stone That Became a Tool

UNIT 2 Weeks 5 to 8

Math
Science

Language
Ecology
Problems

The Work That Vanishes
The Experiment That Changed Two Things
The Word Built from Pieces
The Pond That Changed Overnight
Keeping the Fire

UNIT 3 Weeks 9 to 12

Math
Science
Language
Ecology
Problems

Two Boxes, One Answer
The Measurement That Moved
The Sentence That Turned Around
The Flower That Needed a Visitor
The Food That Had to Last

UNIT 4 Weeks 13 to 16

Math
Science
Language
Ecology
Problems

The Order of Discovery
The Model That Almost Worked
The Comma That Changed the Story
The Journey Without a Map
The River That Wouldn't Obey

UNIT 5 Weeks 17 to 20

Math
Science
Language
Ecology
Problems

Reversing the Calculation
The History Inside the Seed
Two Meanings, One Sentence
The Meadow That Became a Forest
Finding an Island Without a Map

UNIT 6 Weeks 21 to 24

Math
Science
Language
Ecology
Problems

What Must Remain Unresolved
The Pond That Changed Its Mind
The Rewrite That Lost Something
The Shoreline That Wouldn't Stay Still
The Water That Had to Climb

UNIT 7 Weeks 25 to 28

Math
Science
Language
Ecology
Problems

The Choice Before the Calculation
The Invisible Part of the Picture
The Perfectly Wrong Sentence
The Forest That Grew Back Differently
The Book That Took Too Long

UNIT 8 Weeks 29 to 32

Math
Science
Language
Ecology
Problems

The Boundary of a Step
Two Explanations, One Result
The Spelling That Remembered
The Species Nobody Counted
The Map That Found a Pattern

UNIT 9 Weeks 33 to 36

Math
Science
Language
Ecology
Problems

Solving by Changing the Question
The Answer We Haven't Earned
The Message That Finally Worked
The Garden That Could Not Be Finished
The Solution Nobody Planned

OVERVIEW

CHAPTER 3

A Week With Multix

SPLIT · BALANCE · CORRECT

Two chapters from each series every week. Each chapter is one sitting of about 20 minutes, plus its puzzle page when it has one.

Day	First sitting	Second sitting
Monday	Mathematics	Science
Tuesday	Spelling and Grammar	Ecology
Wednesday	Problem Solving	Mathematics
Thursday	Science	Spelling and Grammar
Friday	Ecology	Problem Solving

STEP 1 Shared habits

Three habits show up under different names in all five series.

- **Label the claim.** Mathematics sorts claims into *has a reason, only seen so far* and *refuted*. Science separates observed from inferred. Problem Solving separates evidence, reconstruction and imagined scenario.
- **Change one thing.** A fair experiment, a rewritten sentence, a rearranged sum and a changed pond all ask what moved and what stayed.
- **Say what is missing.** An owed correction, an unresolved question, an uncounted species and an unrecorded intention are all things the notebook should name.

STEP 2 Puzzle pages and answer keys

Every chapter ends with a puzzle page: spot the slip, color by answer, balloon message, and others added as each series needs them. Every number, measurement, graph and key is generated from checked source data and verified independently before it is typeset. Illustrations never carry the math.

OVERVIEW

CHAPTER 4

Open Points

STEP 1 **Overlap to settle**

The Science book *The Pond That Changed Its Mind* (Unit 6) and the Ecology book *The Pond That Changed Overnight* (Unit 2) cover close to the same ground, and their titles are nearly the same. Options: keep both and give the Science book a measurement-and-feedback angle, retitle one, or move the Science pond to a different unit from the Ecology pond.

STEP 2 **Shape of the titles**

Of the 45 titles, 23 follow the pattern *The ... That* The pattern is pleasant in a small dose and tiring across a shelf. A few of the Science, Language and Ecology titles could be reworked without losing anything.

STEP 3 **Counts to confirm**

Mathematics has 73 chapters, eight per book and nine in Book 3. The other four series are planned at about eight chapters a book, with Problem Solving's six to eight depending on how many episodes each theme holds. The pacing above assumes eight.

STEP 4 **Facts before stories**

Problem Solving is the one series where invented intentions could pass as established fact. Each historical chapter is drafted only after its case study is checked against primary evidence and reliable scholarship, and the three kinds of statement, evidence, reconstruction and imagined scenario, are marked on the page.

STEP 5 **Order of work**

Mathematics is already drafted and one book is typeset. A sensible order is to typeset the rest of Mathematics, then draft and typeset each other series one unit at a time so every series stays in step with the year map.