

SAVVAS

Implementation
Guide

Experience Chemistry[®]



Where **Wonder**
and **Science** Connect

Experience Chemistry ©2026

NGSS-designed. Phenomena- and Problem-driven.
Teacher-supported.

What if your students could drive their learning, just by asking the right questions? *Experience Chemistry*® is built from the ground up around real-world phenomena, engineering problems, and a student-centered model that shifts instruction from passive to active learning.



Why This Model Works

- ✓ **Designed for NGSS:** Fully aligned to the 3-Dimensional Framework and built to support SEPs, CCCs, and DCIs in every experience.
- ✓ **Built for Student Ownership:** Students gather evidence, build models, and make sense of what they observe.
- ✓ **Made for Real Classrooms:** Flexible pacing, relatable phenomena ideas, and practical support at every level make it easier to teach and meet your students where they are.

SCAN or CLICK HERE to learn more about *Experience Chemistry*.



WATCH THE VIDEO!

Dr. Michael Wyession

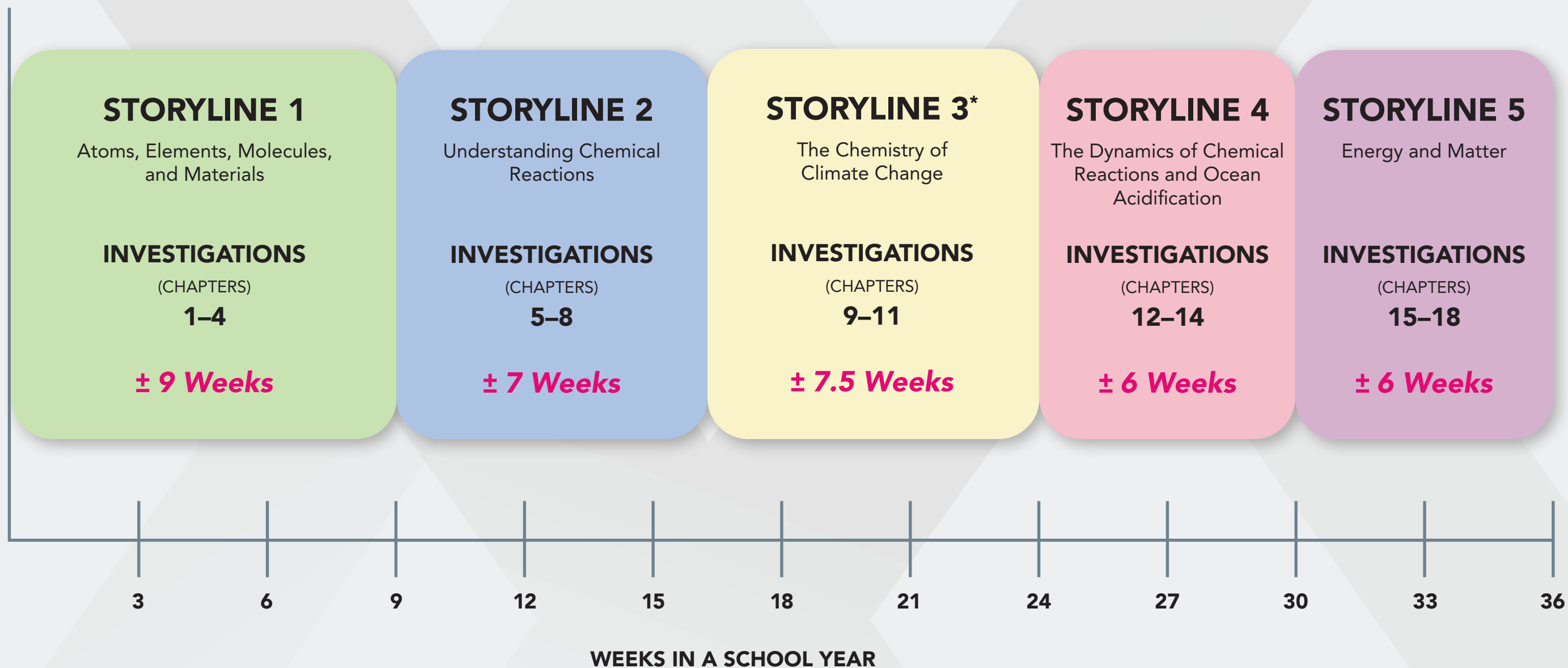
Co-author of *Experience Chemistry*®
and *Experience Physics*®

Year at a Glance

Here's a quick snapshot of how the year breaks down by storyline so you can see at a glance how this program fits into your school year. The pacing is flexible, thoughtfully organized, and designed to make planning easier whether you're on a more traditional or block schedule.

STORYLINES (UNITS) 1-5

*Storyline 3 should be included as needed to meet your local curriculum requirements. Inclusion of Storyline 3 may require excluding other materials.



These week totals are approximations based on standard instructional periods (40–55 mins) and block schedules (75–95 mins), and may vary by classroom or district pacing.

Scope and Sequence

SCAN or CLICK [HERE](#) the QR Code to view and download the full Course Planner & Pacing Guide.



STORYLINE 1

Atoms, Elements, Molecules, and Materials

Anchoring Phenomenon: Why does this rock change colors?

INVESTIGATION 1 Atomic Structure	INVESTIGATION 2 The Periodic Table	INVESTIGATION 3 Chemical Bonding	INVESTIGATION 4 Physical Properties of Materials
FAST TRACK TOTAL <input checked="" type="checkbox"/> 11.5 Periods OR 5.75 Blocks	FAST TRACK TOTAL <input checked="" type="checkbox"/> 7.5 Periods OR 3.75 Blocks	FAST TRACK TOTAL <input checked="" type="checkbox"/> 11.5 Periods OR 5.75 Blocks	FAST TRACK TOTAL <input checked="" type="checkbox"/> 13.5 Periods OR 6.75 Blocks
Experience 1 The Particle Nature of Matter	Experience 1 The Periodic Table: An Overview	Experience 1 Ionic Bonds	Experience 1 States of Matter
Experience 2 Modeling Atoms	Experience 2 The Periodic Table and Atomic Structure	Experience 2 Metallic Bonds	Experience 2 Modeling Phase Changes
Experience 3 Atomic Emission Spectra and the Bohr Model	Experience 3 Periodic Trends	Experience 3 Covalent Bonds	Experience 3 Comparing Ionic and Molecular Compounds
Experience 4 Modern Atomic Theory		Experience 4 Intermolecular Attractions	Experience 4 Comparing Metals and Nonmetals
Experience 5 Electrons in Atoms		Experience 5 Names and Formulas of Compounds	Experience 5 Water and Aqueous Systems
			Experience 6 Properties of Solutions

STORYLINE 2

Understanding Chemical Reactions

Engineering Problem: How can you make airbags that inflate but not explode?

INVESTIGATION 5 Chemical Quantities	INVESTIGATION 6 Chemical Reactions	INVESTIGATION 7 Stoichiometry	INVESTIGATION 8 Thermochemistry
FAST TRACK TOTAL <input checked="" type="checkbox"/> 9.5 Periods OR 4.75 Blocks	FAST TRACK TOTAL <input checked="" type="checkbox"/> 7.5 Periods OR 3.75 Blocks	FAST TRACK TOTAL <input checked="" type="checkbox"/> 8 Periods OR 4 Blocks	FAST TRACK TOTAL <input checked="" type="checkbox"/> 8 Periods OR 4 Blocks
Experience 1 The Mole Concept	Experience 1 Modeling Chemical Reactions	Experience 1 Quantifying Reactants and Products	Experience 1 Energy in Chemical Bonds
Experience 2 Molar Relationships	Experience 2 Predicting Outcomes of Chemical Reactions	Experience 2 Chemical Calculations	Experience 2 Enthalpies of Formation and Reaction
Experience 3 Percent Composition and Empirical Formulas	Experience 3 Reactions in Aqueous Solution	Experience 3 Limiting Reagent and Percent Yield	Experience 3 Enthalpy in Changes of State
Experience 4 Concentrations of Solutions			

Period = 40–55 minutes Block = 75–95 minutes

STORYLINE 3

The Chemistry of Climate Change*

Anchoring Phenomenon: Why are summers hotter than they used to be?

*Storyline 3 should be included as needed to meet your local curriculum requirements. Inclusion of Storyline 3 may require excluding other materials.

INVESTIGATION 9 The Behavior of Gases	INVESTIGATION 10 Weather and Climate	INVESTIGATION 11 Global Climate Change
FAST TRACK TOTAL <input checked="" type="checkbox"/> 9.5 Periods OR 4.75 Blocks	FAST TRACK TOTAL <input checked="" type="checkbox"/> 12 Periods OR 6 Blocks	FAST TRACK TOTAL <input checked="" type="checkbox"/> 14.5 Periods OR 7.25 Blocks
Experience 1 Properties of Gases	Experience 1 Earth's Surface Systems	Experience 1 The Chemistry of Earth's Atmosphere
Experience 2 The Gas Laws	Experience 2 Water and Energy in the Atmosphere	Experience 2 Evidence of Climate Change
Experience 3 Ideal Gases	Experience 3 Atmospheric System Feedbacks	Experience 3 Anthropogenic Carbon Emissions
Experience 4 Gases in Earth's Atmosphere	Experience 4 Long-Term Climate Factors	Experience 4 Climate Models
	Experience 5 Short-Term Climate Factors	Experience 5 Consequences of Climate Change
		Experience 6 Responses to Climate Change

STORYLINE 4

The Dynamics of Chemical Reactions and Ocean Acidification

Engineering Problem: How can we reverse ocean acidification?

INVESTIGATION 12 Reaction Rates and Equilibrium	INVESTIGATION 13 Acid-Base Equilibria	INVESTIGATION 14 Ocean Acidification
FAST TRACK TOTAL <input checked="" type="checkbox"/> 10.5 Periods OR 5.25 Blocks	FAST TRACK TOTAL <input checked="" type="checkbox"/> 10 Periods OR 5 Blocks	FAST TRACK TOTAL <input checked="" type="checkbox"/> 10 Periods OR 5 Blocks
Experience 1 Rates of Reaction	Experience 1 Acids, Bases, and Salts	Experience 1 Ocean pH Levels
Experience 2 The Progress of Chemical Reactions	Experience 2 Strong and Weak Acids and Bases	Experience 2 The Ocean as a Carbon Sink
Experience 3 Reversible Reactions and Equilibrium	Experience 3 Reactions of Acids and Bases	Experience 3 The Ocean and Climate Change
Experience 4 Free Energy and Entropy	Experience 4 Buffers and Equilibria	Experience 4 Consequences of Ocean Acidification

STORYLINE 5

Energy and Matter

Engineering Problem: How can we design sustainable solutions to meet the world's energy needs?

INVESTIGATION 15 Oxidation-Reduction Reactions	INVESTIGATION 16 Organic Chemistry	INVESTIGATION 17 Nuclear Processes	INVESTIGATION 18 Green Chemistry
FAST TRACK TOTAL <input checked="" type="checkbox"/> 7.5 Periods OR 3.75 Blocks	FAST TRACK TOTAL <input checked="" type="checkbox"/> 7.5 Periods OR 3.75 Blocks	FAST TRACK TOTAL <input checked="" type="checkbox"/> 7.5 Periods OR 3.75 Blocks	FAST TRACK TOTAL <input checked="" type="checkbox"/> 8 Periods OR 4 Blocks
Experience 1 Oxidation vs. Reduction	Experience 1 Hydrocarbons	Experience 1 Radioactivity and Half-Life	Experience 1 Industrial Chemicals and the Environment
Experience 2 Modeling Redox Reactions	Experience 2 Functional Groups and Polymers	Experience 2 Fission and Fusion	Experience 2 Principles of Green Chemistry
Experience 3 Electrochemical Cells	Experience 3 The Chemistry of Life	Experience 3 Nuclear Technologies	Experience 3 Designing Sustainable Chemical Processes

Period = 40–55 minutes Block = 75–95 minutes

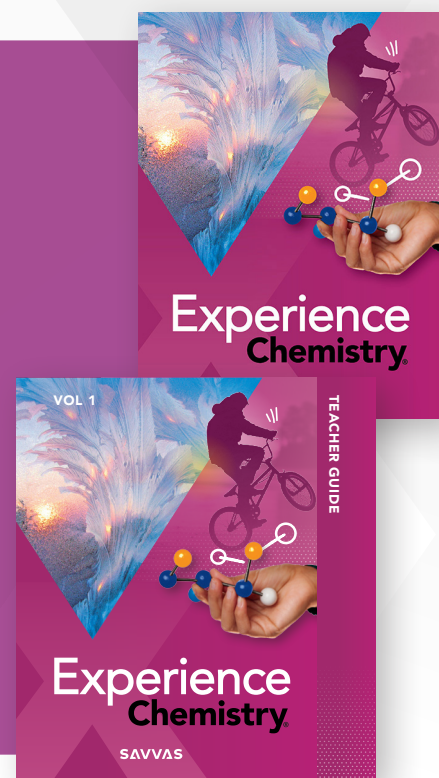
One Program. Multiple Pathways.

Whether you're teaching **Honors, Core, or Integrated Chemistry with Earth and Space Science**, *Experience Chemistry* gives you the flexibility to meet your students where they are—all in one flexible program. With clearly defined paths built right into the Teacher Guide, you can tailor the content without sacrificing coherence, quality, or NGSS alignment.

- **Full Program (all Storylines):** 71 Experiences | 181.5 Periods or 90.75 Blocks
 - Core Chemistry:** 44 Experiences | 113 Periods or 56.5 Blocks
 - Compact Option (omit Storyline 3):** 56 Experiences | 144 Periods or 72 Blocks
- **Honors Chemistry:** 56 Experiences | 145 Periods or 72.5 Blocks
- **Integrated Chemistry + Earth Science:** 59 Experiences | 149.5 Periods or 74.75 Blocks

Expand Pathways in Science!

Experience Chemistry now connects to a new lineup of CTE and dual-enrollment science courses—designed to prepare students for college, careers, or both. [CLICK](#) or [SCAN HERE](#) to learn more!



SCAN or [CLICK HERE](#) to bookmark this sheet!

Resource Cheat Sheet

Use this quick chart to match your classroom needs with a few go-to resources for practice, review, support, and enrichment.

Resource	Practice OR Reinforcement	Review	Extension OR Enrichment	Support for Struggling Students	Support for Multilingual Learners
Appendix C Practice Problems		●		●	●
Auto-graded Sample Problems	●	●		●	●
Stepped-Out Sample Problems with "Need a Hint?" Prompts	●	●		●	●
Math Skills Practice Sheets	●	●		●	●
Problem-Solving & Math Support Tile	●			●	
Virtual Nerd® Math Videos	●	●		●	●
Sample Problem Tutorial Videos	●	●		●	●
Shortened Labs	●	●		●	
Guided Labs				●	●
WIDA & MLL Support Strategies				●	●
Google Translate™ Integration in Realize					●
Tools for Success (visual supports, scaffolds, sentence frames)	●	●		●	●
Open-Ended and Advanced Labs			●		
Engineering Design Challenges			●		
Hook & Inspire Career and Open Ed Resources			●		
Non-Fast Track Activities	●	●	●	●	

Want more? Find additional tools, strategies, and supports in your Teacher Guide or log in to Savvas Realize to explore the full suite of available resources.

Where Wonder and Science Connect

Experience
Chemistry[®]

“ The program itself is not difficult—it’s the mindset shift that takes work. I had to change how I’d been teaching for nine years. But my students are better for it. I’ve seen a more positive environment in my classroom, and they leave feeling accomplished. That’s why I’m all in. ”

Danielle,
Chemistry Teacher at Eaton High School, TX



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#TheScienceofDoing

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