

## From Phenomena to Connection: Chemistry That Engages

Discover the 4th Edition of *Living By Chemistry*, an inquiry-based, activity-a-day program that makes chemistry meaningful through thematic units and real-world phenomena. This edition features updated content, new “Try It!” practice, revised engineering projects, and expanded support for diverse learners. Grounded in NGSS and supported by Achieve, it provides comprehensive teacher resources and engaging digital tools.

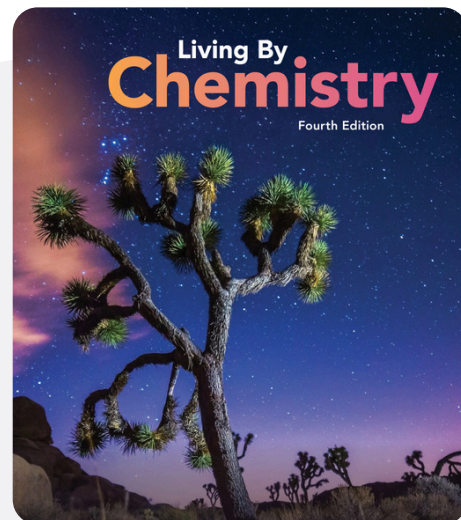
### New to this Edition

- **NEW! Content coverage** aligned to Earth & Physical Sciences standards from national and state frameworks
- **NEW! “Try It!” problems** now follow each worked example to reinforce conceptual understanding through immediate practice
- **NEW! Connections boxes** now include Reading Check follow-up questions to promote comprehension and reflection
- **NEW! Bulleted summaries** at the end of each chapter to support student review and retention
- **NEW! Concept Maps** at the end of each unit visually connect key concepts, terms, and processes across the unit phenomenon
- **NEW! Six multi-step Engineering Projects** have been revised and distributed across chapters to better align with NGSS engineering design practices
- **NEW! “See Yourself in Chemistry”** career features at the end of each unit introduce students to diverse professions that apply chemistry in meaningful ways
- **Key improvements throughout**, including updated assessments, content refinements, and a refreshed visual design for clarity and accessibility

These enhancements ensure that *Living By Chemistry* remains both innovative and practical for today’s classrooms.



Scan the QR Code to Learn More.



### *Living By Chemistry* 4<sup>th</sup> Edition

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Hardcover Edition ISBN:  
9781319606121

### Readability/Lexile Measure:

Grade Level: 7.8

Lexile Measure: 810L - 1000L

# See the Big Picture: Chemistry From Earth to Atmosphere

*Living By Chemistry*, Fourth Edition combines an inquiry-based approach with purposeful content design to help all students learn chemistry by doing chemistry. The program is built to engage, support, and challenge students through active learning, real-world phenomena, and meaningful problem-solving.

- **A complete, ready-to-teach program** that includes full lesson plans, worksheets, assessments, lab guides, and material lists—no need to build your curriculum from scratch
- **Guided-inquiry, activity-a-day structure** that builds conceptual understanding
- **Thematic unit organization** grounded in everyday phenomena and student curiosity
- **Hands-on labs and engineering projects** that develop scientific thinking and collaboration
- **Connections boxes and real-world examples** that tie chemistry to life, earth, and physical sciences
- **Updated and expanded content** aligned to NGSS and state science standards
- **“Try It!” problems** that offer immediate practice following worked examples
- **Bullethead chapter summaries** and unit-level Concept Maps to support review and retention
- **New “See Yourself in Chemistry” features** that highlight chemistry-related careers
- **Accessible, wraparound Teacher’s Edition** with full 5E lesson plans and built-in differentiation
- **Authored by Dr. Angelica M. Stacy**, award-winning educator and NGSS contributor, with decades of classroom-tested expertise

Whether you're teaching on-level, honors, or Pre-AP<sup>®</sup> chemistry, *Living By Chemistry* helps students connect the content to the world around them.



## Future-Ready with Achieve

LBC 4e is powered by the Achieve platform, providing auto-graded homework, AP<sup>®</sup>-style assessments, interactive tutorials, review tools, performance analytics, and a brand new AI Tutor.

**AI Tutor** offers conversational, real-time support that guides learning through dialogue rather than answers, helping provide students with:

- Personalized, course-aligned support
- Socratic guidance that develops critical thinking
- Deeper conceptual understanding through guided problem-solving



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