

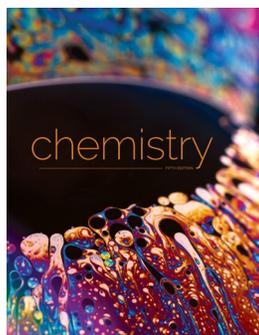
NEW

Chemistry

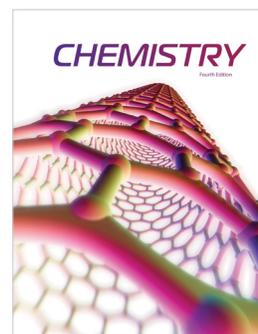
COMPARISON CHART

Updates

The 5th edition materials of Chemistry represent changes to the reading level and clarity of explanations. All revisions and features are designed to facilitate student learning and ease of use for the teacher. While the topics are largely consistent between 4th edition and 5th edition, the 5th edition materials would not be compatible with the 4th edition materials.



5th Edition



4th Edition

Basic Features

Student Edition Page Numbers	628	593
Chapters	22	20
Reading Level	Grades 10–11 progressing to Grades 11–12	Grades 11–12

Scope & Sequence Updates

- Chapter 4, “Atomic Structure,” has been split into two chapters on atomic structure and electron arrangement.
- Chapter 8, “Chemical Composition and Reactions,” has been split into two chapters on chemical compounds and chemical reactions.
- Chapter 18, “Organic Chemistry and Biochemistry,” has been split into two chapters on organic chemistry and biochemistry.
- Chapter 19, “Materials Chemistry,” has been removed.
- Example problems and section and chapter review problems have been revised to reflect the same level of difficulty.

Content Revisions

- Adjusted reading level throughout to prepare students for 11th to 12th grade material.
- Adjusted explanations throughout for clarity.
- Increased number of example problems to meet the needs of the customers.
- Explained all example problems fully in both the student edition and teacher edition.
- Formatted expanded solutions in the teacher edition to match the example problems in the student edition.
- Revised chapter content to more effectively prepare students for section and chapter review problems.
- Reduced long explanations of minute details to focus on bigger ideas in a clear, concise manner.
- Added more case studies and webquests throughout.
- Renamed webquests to Worldview Investigations.
- Added more infographics throughout.

Textbook Snapshot



New Features

- Added mini-labs to each chapter to provide quick hands-on activities.
- Added ethics boxes throughout to provide opportunities for worldview shaping with real-world problems.
- Added inquiry labs to the lab manual, allowing students to develop their own experimental procedures to investigate a scientific question.