

About Your Study Plan

This Study Plan is your syllabus for the American Board program. We encourage you to use the recommended resources to target preparation to your needs and goals. There will be hyperlinks throughout this document. Please make sure that you visit the relevant pages to access all of the resources. Your commitment to great teaching begins here.

Preparing to Pass

American Board is committed to making sure you are the best possible teacher. We will provide you with study tips to get ready for the exam and the content and resources to review the material.

Think of the Snapshot below as an overview for what you need to know. For more detail in each topic, review the exam [standards](#). The ABCTE exams are based on this blueprint, so consider the syllabus for what you want to study.

Your Materials

- **Standards:** a list of everything that might be on the test.
- **Study Plan:** your syllabus with link to what you need to study for each section.
- **Study Materials:** an overview course on the topics you will be tested on.
- **Practice Exam/Section Quizzes:** a sample test questions and solutions.

Chemistry Exam Snapshot

Time Allowed	240 minutes	On-Screen Exhibits	Scientific Calculator, Formula Sheet, Periodic Table & Standard Reduction Potentials
Format	Multiple Choice	Passing Score	Proficient: 285/500 Distinguished: 357/500
# of Questions	125		

About This Exam

The American Board for Certification of Teacher Excellence believes that highly skilled chemistry teachers should possess a comprehensive body of scientific knowledge that is research-based and promotes student achievement.

The chemistry exam is a rigorous assessment of a candidate's knowledge and application of general chemistry. The topics assessed are characteristically covered in introductory college-level chemistry courses, although some more advanced questions are included, as teachers must hold a more sophisticated understanding of chemistry content than that presented to their students.

Exam Summary	Areas of Study	Percentage of Exam
	General Science Knowledge	4%
	Scientific Investigation	7%
	Atomic Structure, Periodicity, and Matter	26%
	Chemical Naming and Structure	14%
	Reactions and Reactivity	26%
	Gas Laws and Solutions	18%
	Organic Chemistry	5%

How to Use American Board Practice Tests

If you have chosen to use our practice tests, you may have already used the quizzes to get a better idea of where your strengths and weaknesses are. There are two full-length exams that we suggest you use in *testing mode* as a mid-term and final to work on your timing and endurance. You can use them again in *explore mode* to identify distractors.

The Study Plan:

Your study plan includes direction on how to use ABCTE's resources. We also include recommended resources to aid in your mastery. This plan was designed for a 9 month period (4 months for Professional Teaching Knowledge (PTK); 4 months for the subject matter; 2 weeks to take each test) in which most people are able to complete the program. Many have completed the program in a shorter amount of time.

Area of Study	Required Resources	Recommended Resources
☐ Domain 1: Scientific Investigation ☐ Domain 2: General Science Knowledge	Review the specific Chemistry standards HERE The corresponding sessions can be found in your American Board Study Materials Scientific Knowledge ☐ Scientific Investigation ☐ Interpreting and Measuring Data ☐ General Science I ☐ General Science II ☐ Review	Books ☐ A Beginner's Guide to Scientific Method ☐ Scientific Method in Practice

Your Notes:

"The information presented in the courses and the workshops was extremely helpful to me because they provided real examples that I have been able to implement immediately in my classroom."

- Lauren Masino, ABCTE Teacher, FL

Study Tip:

One effective way of using the practice quizzes is to look at the incorrect answer choice before looking at the correct explanation to see if you can understand why those options are wrong. If you can understand how a test maker uses distractors, you will be able to eliminate wrong answer choices faster on test day.

Area of Study	Required Resources	Recommended Resources
☐ Domain 3: Atomic Structure, Periodicity, and Matter ☐ Topic 1: Atomic Structure and Theory ☐ Topic 2: Periodic Table ☐ Topic 3: Quantum Mechanics ☐ Topic 4: Nuclear Chemistry	Review the specific Chemistry standards HERE The corresponding sessions can be found in your American Board Study Materials Atomic Structure, Periodicity, and Matter ☐ Development of the Atomic Theory ☐ The Structure of the Atom ☐ The Periodic Table ☐ Quantum Mechanics Part I ☐ Quantum Mechanics Part II ☐ The Nucleus and Nuclear Reactions ☐ Review	Web Resources ☐ Chemistry Guide ☐ Periodic Table ☐ WebElements ☐ American Board Chemistry Exam Formulas and Constants Books ☐ Atomic Structure and Periodicity ☐ Standard Reduction Potential Charts Other Media Additional Resources Recommended by American Board

Your Notes: