

AP Chemistry – Exam Structure & Topics Study Plan

AP Chemistry – Exam Structure

The AP Chemistry exam lasts for 3 hours 15 minutes and consists of two sections: Multiple-choice and Free-response. Each section carries equal weightage (50%).

Section	Time	Questions	Type	Calculator Policy	Weightage
Section I	90 min	60	Multiple-choice	No calculator	50%
Section II	105 min	7 (3 long, 4 short)	Free-response	Calculator allowed	50%

Key Focus Areas: Structure of matter, bonding, thermodynamics, kinetics, equilibrium, acids/bases, electrochemistry, and lab-based problem-solving.

AP Chemistry – Topics, Weightage & Study Plan

Topic / Chapter	Approx. Weightage	Difficulty Level	Suggested Study Hours
Atomic Structure & Properties	7–9%	Moderate	8–10 hrs
Molecular & Ionic Compound Structure	7–9%	Moderate	8–10 hrs
Intermolecular Forces & Properties	18–20%	Hard	18–20 hrs
Chemical Reactions	7–9%	Easy	6–8 hrs
Kinetics	7–9%	Hard	10–12 hrs
Thermodynamics (Energy Changes)	7–9%	Moderate	10–12 hrs
Equilibrium	11–13%	Hard	15–18 hrs
Acids & Bases	11–13%	Hard	15–18 hrs
Applications of Thermodynamics (Gibbs Free Energy, Entropy)	7–9%	Moderate	8–10 hrs
Electrochemistry & Redox Reactions	6–8%	Moderate	6–8 hrs

Total Recommended Hours: ~110–130 hrs