AP Chemistry 10-Week Practice Roadmap

Week	Day	Focus Topics	Practice / Activity
Week 1 – Atoms & Atomic Structure	Day 1	Atomic structure: protons, neutrons, electrons	Review periodic table & trends
	Day 2	Electron configuration, orbital diagrams	Solve MCQs on PES
	Day 3	Average atomic mass, isotopes	Work practice questions
	Day 4	Periodic trends (atomic radius, electronegativity)	Diagram-based questions
	Day 5	Quantum numbers, electron energy levels	Short-answer practice
	Day 6	Mixed atomic structure practice set	Timed 20–25 questions
	Day 7	Mini-test on Week 1 content	Self-check (30–40 MCQs)
Week 2 – Bonding & Structure	Day 8	Ionic vs. covalent bonding	Concept maps & examples
	Day 9	Lewis structures & resonance	Practice drawing
	Day 10	VSEPR theory (molecular shapes)	Identify polar vs. nonpolar
	Day 11	Bond energy & strength	Solve calculation-based Qs
	Day 12	Intermolecular forces (IMFs)	Real-life examples
	Day 13	Practice problem set on bonding	25 MCQs
	Day 14	Mini-test: bonding + atomic structure	Self-review test
Week 3 – Reactions & Stoichiometry	Day 15	Balancing chemical equations	10 practice problems
	Day 16	Moles, molarity, empirical formulas	Quantitative MCQs
	Day 17	Limiting reactants & % yield	Applied questions
	Day 18	Net ionic equations	Redox vs. spectator ions
	Day 19	Gas laws in reactions	Calculation-based practice
	Day 20	Mixed reaction practice	20 MCQs
	Day 21	Mini-test on reactions	40 min timed

Week 4 – Kinetics	Day 22	Reaction rates & rate laws	Solve rate problems
	Day 23	Integrated rate laws	First/second order practice
	Day 24	Half-life calculations	Problem set
	Day 25	Activation energy & catalysts	Energy diagrams
	Day 26	Reaction mechanism (slow step)	Practice problems
	Day 27	Kinetics graphs	Sketch & interpret
	Day 28	Mini-test on kinetics	Review errors
Week 5 – Thermodynamics	Day 29	Heat, q=mcΔT, calorimetry	Calculation practice
	Day 30	Hess's law, enthalpy of formation	MCQs
	Day 31	Bond enthalpies & energy diagrams	Worked examples
	Day 32	Entropy & spontaneity	Conceptual Qs
	Day 33	Gibbs free energy	Problem set
	Day 34	Mixed thermodynamics practice	Timed questions
	Day 35	Mini-test on thermo	Review mistakes
Week 6 – Electrochemistry & Redox	Day 36	Oxidation numbers, balancing redox	Short-answer practice
	Day 37	Voltaic vs. electrolytic cells	Diagrams & labeling
	Day 38	Standard reduction potentials	Calculate E°cell
	Day 39	Nernst equation	Practice problems
	Day 40	Faraday's laws, electroplating	Problem set
	Day 41	Mixed redox practice	MCQs
	Day 42	Mini-test on redox	Review
Week 7 – Equilibrium	Day 43	Equilibrium concepts & K expressions	Practice writing K_eq
	Day 44	Reaction quotient Q vs. K	Predict direction
	Day 45	Le Chatelier's principle	Graph-based Qs

	Day 46	Solubility product (Ksp)	Problem set
	Day 47	FRQ equilibrium problem	Solve timed
	Day 48	Mixed equilibrium practice	20 MCQs
	Day 49	Mini-test on equilibrium	Review
Week 8 – Acids & Bases	Day 50	Strong vs. weak acids, Ka & pH	Practice calculations
	Day 51	Weak bases, Kb, pOH	Problem set
	Day 52	Neutralization reactions & titration curves	Graph analysis
	Day 53	Buffers & Henderson-Hasselbalch	MCQs
	Day 54	Polyprotic acids & amphoteric species	Practice
	Day 55	Mixed acid–base problem set	Timed practice
	Day 56	Mini-test on acids/bases	Review
Week 9 – Full-Length Practice 1	Day 57	Full-length practice test	3 hrs timed
	Day 58	Review mistakes	Correction notebook
	Day 59	Focus on weak areas (atoms/bonding/stoich)	Short drills
	Day 60	Timed mixed set (60 MCQs)	Review
	Day 61	Mini FRQ set (3 Qs)	Practice
	Day 62	Concept review notes	Summarize
	Day 63	Light practice	Prep for final push
Week 10 – Full-Length Practice 2 & Final Review	Day 64	Full-length practice test	3 hrs timed
	Day 65	Review errors carefully	Correction log
	Day 66	Mixed review set: kinetics + equilibrium	MCQs
	Day 67	Mixed review set: thermo + redox	MCQs
	Day 68	Mini FRQ practice (6 Qs)	Timed
	Day 69	Final cheat-sheet prep	Summarize formulas

	Day 70	Light revision + rest	Relax & review key points