


AP Chem Full Exam Review Choice Board

Review Log portion stays in the classroom. Update it in class each day.

Digital copy posted on calendar and Class Website (AP tab → Study Section → Full Exam Review).

Perseverance is the hard work you do after you get tired of doing the hard work you already did.

-Newt Gingrich

<p>Notes Review and Rewrite</p> <p>BEST PLACE TO START. So important to flip through and see all the things we have covered!</p> <p><u>Example of Evidence:</u> Get a new paper out and take notes on your notes.</p>	<p>Thou Shalt Not Forget Review</p> <p>Quiz each other, make flashcards, use the online quiz another teacher made (link on class calendar), etc.</p> <p><u>Example of Evidence:</u> Scratch paper of work.</p>	<p>5 Minute Madness Activities</p> <p>Must stay in the classroom and be put back nice and neatly when done!</p> <p><u>Example of Evidence:</u> Notes on the key points, parts you got wrong, parts you realize you need to review, etc.</p>	<p>Review Test Folder and Rework old Qs</p> <p>Phone on wall, sit where no devices. MUST SIGN FOLDER OUT AND BACK IN. STAYS IN CLASS.</p> <p><u>Example of Evidence:</u> You can staple a purple paper to the old quiz with your new work.</p>
<p>Read the Actual AP Chem CED</p> <p>It is long, just jump to the actual chem content. Read through what they claim you should be able to do!</p> <p><u>Example of Evidence:</u> Notes on things to review.</p>	<p>AP Classroom Practice Questions</p> <p>I made tons available. I won't be able to grade your FRQs but I think I made the rubrics viewable.</p> <p><u>Example of Evidence:</u> Scratch paper of work.</p>	<p>Released AP Exam FRQs</p> <p>SUCH GOOD PRACTICE. Seriously. Please do a lot of these! Good way to get mixed topic review!</p> <p><u>Example of Evidence:</u> Scratch paper of work.</p>	<p><u>Quality</u> YouTube Videos</p> <p>Playlist of AP Daily Videos, and links to Doc Dena, Mr. Farabaugh, Mr. Patenaude on my YouTube Channel</p> <p><u>Example of Evidence:</u> Take notes on the videos.</p>
<p>Lab Specific Review</p> <p>Lab notebook, handouts, Two Pagers, lab skills PowerPoint on the Labs tab on website, look through released FRQs for lab based ones, etc.</p> <p><u>Example of Evidence:</u> Scratch paper of notes.</p>	<p>AP Chem Review Binder</p> <p>Hard copy stays in the classroom! Digital copy on class website somewhere... I honestly don't remember where everything is saved anymore!</p> <p><u>Example of Evidence:</u> Get a new paper out and take notes on your notes.</p>	<p>Full Exam Review by Big Idea Document</p> <p>College Board doesn't organize by "Big Idea" anymore, but it is a nice document that covers all topics even if in a different order.</p> <p><u>Example of Evidence:</u> Get a new paper out and take notes on your notes.</p>	<p>20 Day Test Review Book or Scanned Copy</p> <p>An old resource that we have used for years, but it is still a good option. Some things aren't in the class anymore but those should be obvious.</p> <p><u>Example of Evidence:</u> Get a new paper out and take notes on your notes.</p>
<p>crackAP.com Albert iO</p> <p>More MCQ practice. Please do AP Classroom Q's first since we know those are actual AP questions.</p> <p><u>Example of Evidence:</u> Scratch paper of work.</p>	<p>Previous Years Student Made Games</p> <p>Try out one of the student made games from last year and give me some feedback on it.</p> <p><u>Example of Evidence:</u> Feedback form for Mrs. Farmer.</p>	<p>"Down the Rabbit Hole"</p> <p>Dive into the random Extra Review Material Folders on the Class Website. There are SO many great things other teachers have shared with me, but it is impossible to organize and vet all of them. Good stuff, just make sure you are covering all topics, chapters, etc. Keep yourself focused, not bouncing around between random resources!</p>  <p><u>Example of Evidence:</u> Scratch paper of your work.</p>	

Topic List – General overview, not everything you need to know!

Check things off this list as you review. Make sure you are studying all the chapters!

Unit 1 – Thermochemistry <ul style="list-style-type: none"> <input type="checkbox"/> Concepts, Definitions, Calculations <input type="checkbox"/> Endo vs. Exo <input type="checkbox"/> Specific Heat <input type="checkbox"/> Calorimetry <input type="checkbox"/> Heating Curves <input type="checkbox"/> Hess's Law <input type="checkbox"/> Heat of Formation <input type="checkbox"/> Bond Energy 	Unit 5 – Atomic Structure <ul style="list-style-type: none"> <input type="checkbox"/> Concepts, Definitions, Calculations <input type="checkbox"/> Waves <input type="checkbox"/> Effective Nuclear Charge <input type="checkbox"/> Shielding <input type="checkbox"/> Periodic Trends – Radius, IE, Electronegativity, Electron Affinity <input type="checkbox"/> Ionic Radius <input type="checkbox"/> Isoelectric Species <input type="checkbox"/> Photoelectron Spectroscopy 	Unit 9 – Solutions <ul style="list-style-type: none"> <input type="checkbox"/> Concepts, Definitions, Calculations <input type="checkbox"/> Concentration Calculations <input type="checkbox"/> Mole Fractions <input type="checkbox"/> Heat of Solution – steps and calculations <input type="checkbox"/> Raoult's Law <input type="checkbox"/> Ideal vs. Non-ideal Solutions <input type="checkbox"/> Solubility trends
Unit 2 – Thermodynamics <ul style="list-style-type: none"> <input type="checkbox"/> Concepts, Definitions, Calculations <input type="checkbox"/> Spontaneity <input type="checkbox"/> Entropy <input type="checkbox"/> Gibbs Free Energy <input type="checkbox"/> Gibbs-Helmholtz Equation <input type="checkbox"/> Connection to Equilibrium <input type="checkbox"/> "Rat Link" Equation 	Unit 6 – Bonding <ul style="list-style-type: none"> <input type="checkbox"/> Concepts, Definitions, Calculations <input type="checkbox"/> Ionic vs. Covalent <input type="checkbox"/> Bond length, strength, multiplicity <input type="checkbox"/> Bond Energy <input type="checkbox"/> Coulomb's Law <input type="checkbox"/> Lattice Energy <input type="checkbox"/> Steps that make up the Enthalpy of Formation Energy <input type="checkbox"/> VSEPR <input type="checkbox"/> Resonance <input type="checkbox"/> Formal Charge <input type="checkbox"/> Polarity <input type="checkbox"/> Hybridization <input type="checkbox"/> Sigma and Pi Bonds 	Unit 10 – Acid Base <ul style="list-style-type: none"> <input type="checkbox"/> Concepts, Definitions, Calculations <input type="checkbox"/> Conjugates <input type="checkbox"/> Self Ionization of water, Kw <input type="checkbox"/> Strong vs. Weak – Including things like predicting strength of oxyacids <input type="checkbox"/> Strong vs. Weak Calculations <input type="checkbox"/> Less Common Calculations Like Percent Ionization <input type="checkbox"/> Salts <input type="checkbox"/> Buffers, Buffer Capacity <input type="checkbox"/> Henderson-Hasselbalch <input type="checkbox"/> Ksp <input type="checkbox"/> Titrations – questions involving graphs, concepts, and calculations <input type="checkbox"/> Indicators
Unit 3 – Kinetics <ul style="list-style-type: none"> <input type="checkbox"/> Concepts, Definitions, Calculations <input type="checkbox"/> Average Rate <input type="checkbox"/> Instantaneous Rate <input type="checkbox"/> Rate Expressions <input type="checkbox"/> Rate Laws <input type="checkbox"/> Units on Rate Constant <input type="checkbox"/> Integrated Rate Laws <input type="checkbox"/> Graphing Rate Data to find Orders and Rate Constants <input type="checkbox"/> Half-life for Different Order Rxns <input type="checkbox"/> Collision Theory <input type="checkbox"/> Maxwell-Boltzman Distribution Changes with Temperature and Catalysts <input type="checkbox"/> Mechanisms <input type="checkbox"/> Rate Laws with Intermediates 	Unit 7 – Gas Laws <ul style="list-style-type: none"> <input type="checkbox"/> Concepts, Definitions, Calculations <input type="checkbox"/> Gas Laws <input type="checkbox"/> Ideal vs. Real Gas Behavior <input type="checkbox"/> Ideal Gas Law <input type="checkbox"/> "Molar Mass Kitty" <input type="checkbox"/> Gas Density <input type="checkbox"/> Dalton's Law of Partial Pressures <input type="checkbox"/> Mole Fractions 	Unit 11 - Electrochemistry <ul style="list-style-type: none"> <input type="checkbox"/> Concepts, Definitions, Calculations <input type="checkbox"/> Oxidation and Reduction <input type="checkbox"/> Oxidation Numbers <input type="checkbox"/> Balancing Half Reactions <input type="checkbox"/> Cell Potential <input type="checkbox"/> Cells – labeling, components <input type="checkbox"/> Galvanic vs. Electrolytic <input type="checkbox"/> Connection to Thermodynamics <input type="checkbox"/> Calculations connecting Thermodynamic Variables to Electrochem - ΔG°, E°_{cell}, K <input type="checkbox"/> Nernst Equation <input type="checkbox"/> Concentration Cells <input type="checkbox"/> Electroplating <input type="checkbox"/> Electrolysis of Water
Unit 4 – Equilibrium <ul style="list-style-type: none"> <input type="checkbox"/> Concepts, Definitions, Calculations <input type="checkbox"/> Equilibrium Expressions with Concentration or Pressure <input type="checkbox"/> Equilibrium constant <input type="checkbox"/> Le Chatelier's Principle <input type="checkbox"/> Reaction Quotient <input type="checkbox"/> Ice Tables 	Unit 8 – IMFs <ul style="list-style-type: none"> <input type="checkbox"/> Concepts, Definitions, Calculations <input type="checkbox"/> Types of IMFs – LDFs, DP-DP, H-bond, Ion-DP, Ion Induced DP, DP Induced DP <input type="checkbox"/> Relative Strength of IMFs <input type="checkbox"/> Effects on Properties <input type="checkbox"/> Vapor Pressure 	Lab Based Topics <ul style="list-style-type: none"> <input type="checkbox"/> Appropriate equipment selection <input type="checkbox"/> Sig figs related to equipment <input type="checkbox"/> Named lab techniques <input type="checkbox"/> Good lab technique/skills <input type="checkbox"/> Error propagation <input type="checkbox"/> Types of lab graphs

Name: _____

Period: _____

Seat #: _____

Review Log

Review Log stays in the classroom. Update it in class each day.

Log what you did from the choice board each day in class, and 4/7 days of the week at home. Tell me the topics you covered and what type of review activity you did. Choose a variety! Be honest...this is my attempt to keep you focused, on task, and help you make smart choices. You have worked SO hard this year, don't stop now!

Week 1				
In Class	Monday	Tuesday	Block Day	Friday
At Home	Date: ____ / ____	Date: ____ / ____	Date: ____ / ____	Date: ____ / ____
Week 2 – SPRING BREAK – PLEASE KEEP WORKING!				
In Class	Monday	Tuesday	Block Day	Friday
At Home	Date: ____ / ____	Date: ____ / ____	Date: ____ / ____	Date: ____ / ____
Week 3				
In Class	Monday	Tuesday	Block Day	Friday
At Home	Date: ____ / ____	Date: ____ / ____	Date: ____ / ____	Date: ____ / ____

Week 4

In Class	Monday	Tuesday	Block Day	Friday
At Home	Date: ____ / ____	Date: ____ / ____	Date: ____ / ____	Date: ____ / ____

Week 5

In Class	Monday	Tuesday	Block Day	Friday <i>Brain Break Day!</i> No chemistry today!
At Home	Date: ____ / ____	Date: ____ / ____	Date: ____ / ____	Date: ____ / ____