**eLearning Ideas for AP Chemistry**

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1. Keep Calm
	1. August - March happened
	2. College will come
	3. Be open & honest with the kids
	4. Set realistic goals for each day & get regular feedback from the kids
2. College Board: <https://apcentral.collegeboard.org/about-ap/news-changes/coronavirus-update>
	1. Free, live AP Review courses starting 3/25 (Not yet linked)... Also recorded
	2. Tips: <https://apcentral.collegeboard.org/pdf/ap-program-coronavirus-covid19-release.pdf>
	3. Exam:
		1. 45-minute online exam at home: flexible devices (devices available based on need)
		2. 2 test windows, dates TBD (Sooner for those who are ready, later for those who need to review)
		3. Details of testing windows ready by 4/3
		4. Cancel at no charge (if needed)
		5. Colleges still giving credit
		6. Covers Units 1-7, NOT 8-9
			1. Atomic Structure & Properties
			2. Compound Structure & Properties
			3. Intermolecular Forces & Properties
			4. Chemical Reactions
			5. Kinetics
			6. Thermodynamics
			7. Equilibrium
			8. Acids & Bases
			9. Applications of Thermodynamics (Electrochem)
3. AP Classroom: **Take the tour if you haven’t used it**... More stuff now than before
	1. PPC (Personal Progress Checks): All 9 Units, MC & FR
	2. Question Bank
		1. Sortable *SO MANY WAYS!!!*

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1. Recording videos
	1. Screencastify: <https://www.screencastify.com/> (Coupon = CAST\_COVID)
	2. EdPuzzle: <https://support.edpuzzle.com/hc/en-us/articles/360039805612?fbclid=IwAR3H6iB89jMPTlP0CZ6uxltDGMlKTKQAGZM_eXaaM8SGF9atHrpMQRvTB4Q&ck_subscriber_id=113738579>
	3. DOZENS of others for all operating systems, look at reviews, ask for premium trial
2. Interactive conferences
	1. Lots of free options depending on needs
	2. See if it’s built in to you LMS (Canvas Conference, Blackboard Collaborate, etc)
		1. Discussion boards: **Keep the kids talking to each other!**
		2. Have kids turn in work & post it to share
3. Virtual labs
	1. YouTube process & provide data: <https://www.youtube.com/results?search_query=ap+chemistry+experiments>
	2. DIY & time lapse it: <https://drive.google.com/open?id=1joglo95Vt2l7ktHhmM8g7N47x5OOiqHj>
	3. PhET: <https://phet.colorado.edu/en/simulations/category/chemistry>
	4. University of Oregon Demos: <https://chemdemos.uoregon.edu/>
	5. ChemCollective: <http://chemcollective.org/home>
	6. ACS Virtual Chemistry: <https://www.acs.org/content/acs/en/education/students/highschool/chemistryclubs/activities/simulations.html>
	7. Free stuff from your normal vendors? *Doesn’t hurt to ask!*
		1. Vernier:[https://www.vernier.com/remote-learning/?utm\_campaign=remote-learning-solution](https://www.vernier.com/remote-learning/?utm_campaign=remote-learning-solutions&utm_source=house-file&utm_medium=&utm_content=)
		2. Flinn:[https://www.flinnsci.com/athomescience/?utm\_campaign=MKT20383%20-%20Mar20-DistanceLearning-President-Email&utm\_medium=email&utm\_source=Net-Results&utm\_content=MKT20383%20-%20Mar20-DistanceLearning-President-Email#](https://www.flinnsci.com/athomescience/?utm_campaign=MKT20383%20-%20Mar20-DistanceLearning-President-Email&utm_medium=email&utm_source=Net-Results&utm_content=MKT20383%20-%20Mar20-DistanceLearning-President-Email)[s&utm\_source=house-file&utm\_medium=&utm\_content=](https://www.vernier.com/remote-learning/?utm_campaign=remote-learning-solutions&utm_source=house-file&utm_medium=&utm_content=)
	8. The internet is amazing!!!
		1. <https://edu.rsc.org/resources/titration-screen-experiment/2077.article>
		2. <http://glencoe.mheducation.com/olcweb/cgi/pluginpop.cgi?it=swf::800::600::/sites/dl/free/0035715985/117354/Equil_Nav.swf::Equilibrium%20Simulation>
		3. <http://www.learncheme.com/simulations/thermodynamics/thermo-1>
		4. <https://www.playmadagames.com/subscribe/?utm_source=newsletter&utm_medium=email&utm_campaign=reminder_2>
4. Still need to deliver content?
	1. Khan Academy: <https://www.khanacademy.org/science/chemistry/ap-chemistry>
		1. Create class, assign content
	2. ThinkWell: [https://www.thinkwellhomeschool.com/collections/ap-courses](http://click.skem1.com/click/acvr-1umush-maxvsz-1dcpgek7/)
		1. Email sales for free access: sales@thinkwell.com
5. Exam Review
	1. Simplify: Review ≠ Teaching
		1. 3-6 “big ideas” to remember, help manage & prioritize



* 1. Let them choose their path
		1. Certain “key” check-ins (required content) w/ options
		2. Use the data from August-March to help guide/nudge them the right way
	2. Use released exams: <https://apcentral.collegeboard.org/courses/ap-chemistry/exam/past-exam-questions>
		1. Questions & scoring guidelines
		2. Sample responses
	3. Review books ($10-25 on Amazon)
		1. Crash course vs. Practice questions
1. Creative tools to keep them interested
	1. Deck.Toys: <https://deck.toys/coronavirus-support>
	2. GimKit: <https://blog.gimkit.com/blog/support-for-educators-impacted-by-covid-19>
2. Tools for you
	1. AP Discussion Board: We’re all in this together
	2. Adrian Dingle: <https://www.adriandingleschemistrypages.com/>
		1. Blog w/ tips
		2. Free COVID web conferences for students