Name:		Period: Seat #:			
AP Chemistry Summer	Assignment - <mark>Due Monday of t</mark>	he 2 nd Week	of Schoo	<mark>l</mark>	
help you start AP Chemistry with y immediately when school starts – first year Honors Chemistry course	d up to take AP Chemistry this coming ye your best foot forward, prepared for the cl we have no time to waste! You will be ex e (please know that College Prep Chemis topics covered in DVHS Honors Chemis	nallenging work pected to know stry does not co	we have to the information the information were the same	start covering tion covered in the e amount and depth	
	Overview of the First Four Weeks of AP	Chemistry (subje	ct to change)		
Week 1 (short week)	Week 2	Week	3	Week 4	
Welcome!How the class worksSet up notebook and 3-ring binder	 Two day stoichiometry lab Begin Unit #1 - Thermochem Quiz on all of Honors Chem (Block Day) 	Unit #1 LabFinish Unit #1"Add Drop Wir	ndow" ends	Unit #1 QuizStart Unit #2 - Thermodynamics	
Chem curriculum. It is imperative to skills to participate fully in the cour	ared for a quiz given on the <u>Block Day of</u> that you know immediately whether or no rse before the "add drop window" closes. , it would be more stressful to be in a clas	t you have the f While I know th	foundational nat sounds st	knowledge and tressful to have a	
	Summer Assignment Ta	asks			
The most important ski	ter into AP Chemistry I want you to reflect Il you need to do well in this class is pers	everance. Keep	calm and po		
	rk you do after you get tired of doing	the hard wor	k you alreo	idy did." Newt Gingrich	
#1 - JOIN					
-	Send a text to: <u>81010</u> , text this message	e: @apchemfarr	n (Office H	ours 10am - 9pm)	
#2 - SUPPLIES	rding cumpling for this closel Any boly	would be deeple			
#2 - PRINT THIS PAGE!	rding supplies for this class! Any help	would be deeply	7 арргестатес	u 🥥	
double sided, you can tell it : #3 - REMEMBER Everything from Honors C	ket of your work to turn in, and this page is to print just page 1 and then put the page back. Chem! (www.mychemistryclass.net	k in your printer a	and tell it to pri	int page 2! 🙂	
☐ (Re)memorize Common I and Always Solub	,	ass.net 7 AP	Cnem -	Reference Sneets)	
#4 - SELF-ASSESSMENT QUIZ				EEK OF SCHOOL!	
o Show <u>ALL</u> work for	f-Assessment Quiz" covering Honors Che math problems on <i>BINDER PAPER</i> star end to check/correct work. Correct your v	oled to the back	. Number the		
\$5 - REVIEW TASKS				EEK OF SCHOOL!	
o Staple <u>BINDER PA</u> o Clearly label your p o You are welcome to	Evidence of Self Study Page" → https://PER to the back when you run out of sparaper with which Honors Chemistry topic on and encouraged to, review ANY topic. It absolutely LOVE to see extra review were to see extra re	ace on the printe you are showing You can do mor	ed paper. g review wor e than just th	ne ones you	
#6 - PERSEVERANCE PRACTIC	E TURNED!	N MONDAY OF	THE 2 nd W	EEK OF SCHOOL!	
o Show <u>ALL</u> work ("Challenging Stoichiometry Practice Prob (with units!) on <i>BINDER PAPER</i> stapled t k in a <i>GREEN PEN</i> (answers linked on th	to the back. Nur			
#7 - PUT TOGETHER AND STAF		,			
bottom of the packet. *A/	elf-Assessment Quiz*, Evidence of Self S I of these should have <u>binder paper with</u>	<u>n work shown</u> i	included afte	er the printed page!	
#8 - "CHEAT SHEET" which is a terrible name! L	TURNED I _et's call it a "Help Sheet" :-)	N MONDAY OF	THE 2 nd WI	EEK OF SCHOOL!	
☐ To be used on the week t	wo quiz. <u>SINGLE</u> side of an 8.5"x11" pap				

☐ **Do NOT staple this into your packet.** It will be collected separately since you will use it on your quiz.

Honors Chemistry Topics to Help Guide Your Summer Review

This list does not cover every single topic/fact. It is just an overview to help guide your self-studying during the summer. Chapter numbers and titles correlate with Mrs. Farmer's Honors Chemistry class order. All PowerPoints, worksheets, etc. can be found on the green "Honors" tab of the class website. A link to Mrs. Farmer's YouTube Channel can be found on the yellow "Extra Resources" of the class website. Please use them to help your review! www.mychemistryclass.net
You may not have Mrs. Farmer next year, but all AP Teachers are using her website for the summer assignment to streamline things. All students have the same summer work regardless of which teacher they end up with.

BIG PICTURE T	OPICS							
1 st Semester Chapters								
1	2	3	4	5	6	7		
Chemistry Basics	Atomic Structure	Electrons	Periodic Table	Bonding & Structure	Reactions	Stoichiometry		
Metric system Sig figs Dimensional analysis Types of matter Chemical and Physical Changes	Atomic structure Atomic numbers and Isotopes Writing nuclear equations	E- configurations of atoms and ions Noble gas configuration Orbital diagrams	Table structure lons Trends	Types of bonds Naming/Formulas Lewis structures VSEPR Polarity IMFs	Balancing eqs Types of rxns Predicting products Net ionic equations Particle diagrams	Molar conversions Regular stoich.		
		2 nd	Semester Chapt	ters				
8	9	10	11	12	13	14		
Adv. Chemical Ratios	Gas Laws	Thermochem	Solutions	Kinetics	Equilibrium	Acid/Base		
Limiting reagent stoichiometry Percent composition Empirical formulas	Gas laws Finding density and molar mass Dalton's Law Collecting gas over water Gas stoichiometry	Specific heat Calorimetry Heating curves Molar heats Heat of rxns Bond Energy Heat of formation Hess's Law	Solution concepts Solution calculations	Rate affecting factors Rate expressions Instantaneous rates Rate laws Rate constant - k Method of initial rates	Le Chatelier's K versus Q ICE Tables 5% Rule	Properties and Types Naming pH calculations Strong/Weak Weak ICE tables Salts, pH of salts Titrations		

Some Extra Review Materials - PLEASE READ AND CONSIDER DOING!

A More Detailed Topic List of Honors Chemistry Topics → https://tinyurl.com/yddlm4h6
A general guideline to help you study. It is NOT a definitive list. There are potentially things on here that will not show up on the quiz, and things not on this list that will show up. Anything from Honors Chemistry has the potential to appear on the quiz. Remember everything is on the class website! www.mychemistryclass.net
Mental Math Practice → https://tinyurl.com/ycxm4jmt
☐ You are now allowed to use a calculator on the AP Chem Exam Multiple Choice section. Yay! BUT it is SO important that you practice doing "mental math" and using other tips/tricks in order to speed things up because it is a timed exam! You need to know the chemistry, but ALSO need to be able to finish on time! Another important tip is to eliminate answer choices that make no sense - that can speed things up tremendously! Practice during the summer so you can start the year off able to do quizzes/tests faster!
Some Extra Practice Tests
 An old practice that covers Ch 1-4 in the AP Textbook which are Honors Review topics. It isn't very detailed, but it is available if you are interested. → https://tinyurl.com/y7cx5eec Science Geek Practice Tests - Chemistry → https://www.sciencegeek.net/Chemistry/Review/ Many of our Honors topics are on the AP section. Just pick the ones that were covered in Honors! → https://www.sciencegeek.net/APchemistry/APtaters/directory.shtml
Free Online Textbooks → OpenStax https://tinyurl.com/5a8krxc4 CK-12 https://tinyurl.com/5n8x4t6y
OpenStax and CK-12 are free online textbooks that anyone can access! If you find yourself struggling with a topic it may be a good idea to search the online book for that topic and read about it.
Need more? Use the class website! → www.mychemistryclass.net
☐ If you have gaps in your Honors Chem topics, it will make success in AP Chem more challenging! The key to success in AP Chem is to be an engaged, proactive, self-sufficient learner! Start off AP Chem on a strong foot! Set yourself up for success! Do the work you need to do NOW in the summer so that next year can go better!
Suggestion about trying to "work ahead" and start some of the AP Chemistry chapters
I suggest you don't. I know it is tempting! However, there is a lot of stuff in the textbook we won't cover in as much depth, or even at all. I don't think it will be an <u>efficient</u> use of your summer time. I think it would be <u>MUCH</u> better for you to work on being proficient and confident doing really challenging Honors Chemistry problems, getting faster at Honors Chemistry problems, trying some more of those "Challenging Stoichiometry Problems" from the "Perseverance

Practice" document, memorizing your common ions, AND having some fun and rest to recharge before school starts:-)