

Dougherty Valley HS Chemistry
Spring Final Exam Review
1st Semester + Chapter 8 Topic and Representative Question Identification

S-37

Name:

Period:

Seat#:

You will use this worksheet to help record a summary of the major topics/ideas/facts for each chapter. Once you have spent some time in class remembering the main topics/ideas/facts for each chapter you will spend some time looking through your old worksheets to try and identify “representative questions” for each chapter – if your teacher could pick only a couple questions from each chapter to put on the final exam, which ones would your teacher pick? It is impossible to cover every single tiny bit of content on a final, so which questions from the year would assess if a student learned the most important aspects of the course?

- Participate in the class poster making activity.
- Use this worksheet during the “gallery walk” to capture the information on the posters.
 - If you would like more space, you are welcome to use extra paper and staple it to this worksheet!
- Go through your old rainbow packets and identify questions on each worksheet that you think your teacher would consider putting on the final exam.
 - Identify it by worksheet # and question #
- In class your teacher will show you the list they picked.
- Determine if you identified the same exact questions, similar questions, or if you were totally off the mark.
- You do not have to do these practice problems again unless you feel like it would be a good use of your self-study time.

Chapter 2
Nuclear Chemistry

Chapter 1
Chemistry Basics and Atomic Structure

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Chapter 3
Electrons

Chapter 5
Bonding and Structure

Chapter 4
Periodic Table

Chapter 6
Reactions

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<p style="text-align: center;"><u>Chapter 8</u> Chemical Compositions</p>	<p style="text-align: center;"><u>Chapter 7</u> Stoichiometry</p>
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Representative Questions Identification						
Chapter #	WS #	My Choice	Teacher's Choice of Representative Qs.	Q Matched/ Similar	Off the Mark, Revisit WS	Comments
1	2		1-6, 18-32			Any kind of conversion.
	3		4-5, 9-10			4-5: good with scientific notation added 9-10: double dimensional analysis
	4		2			Double dimensional analysis
	6		42-51			Not just counting sig figs, but using them too!

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Chapter #	WS #	My Choice	Teacher's Choice of Representative Qs.	Q Matched/ Similar	Off the Mark, Revisit WS	Comments
1 <i>continued</i>	8		1-4, 5-52			1-4: Knowing definitions 5-52: Identifying
	10		Any from chart			Don't forget mass # after the name! Common thing to forget.
	11		36-41			Don't forget ions! Tests two topics at once!
	12		1-3			All of these are very similar.
2	2		1-9			Practicing with word questions will cover more types of questions.
	3		16-19			Don't forget about decay series type questions, tests two things at one time.
	4		1, 4, 6, 10, 13			Make sure to study the questions involving solving for a variety of different things. Not just Ae and As
3	1		4			Don't mix up how many e- in an orbital versus how many are in a set of orbitals!
	2		Any from chart			Make sure you follow Aufbau, Pauli, and Hunds rules!
	3		1-10, 14			Be able to write them obviously, but also answer a variety of questions about a configuration like Q #14
	4		Any!			Don't forget to be able to do noble gas configurations also!
	5		Any!			All types of variations of these questions

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Chapter #	WS #	My Choice	Teacher's Choice of Representative Qs.	Q Matched/ Similar	Off the Mark, Revisit WS	Comments
4	2		14-25, 41-42			Be able to identify groups, names, etc. But also understand why we have the layout we do like #41-42
	4		5-7, Extension Qs 1-2			Know the trends, explain the trends, but also rank things.
	6		Any of them!			Lots of facts to know but also ranking.
	8		1, 5, 9			Don't forget things like ion radius, and 1 st vs. 2 nd vs. 3 rd ionization energies.
5	1		32-40			Need all the earlier info to do these questions!
	2		4-39			Naming and formulas – all similar questions.
	4		6-11, 19-27			Identify if ionic/covalent, write formulas, remember cross over for ionic!!!
	5		4-30			Be able to draw <u>any</u> lewis structure!
	6		5-20			Be able to draw <u>any</u> lewis structure!
	11		3-23			Know VSPER for <u>any</u> lewis structure!
	13		Any of them!			Identify polar or non polar but also rank polarity!
	14		Any of them!			Identify main IMF for <u>any</u> lewis structure!

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Chapter #	WS #	My Choice	Teacher's Choice of Representative Qs.	Q Matched/ Similar	Off the Mark, Revisit WS	Comments
6	1		1-5			Don't forget to study basic stuff too!
	2		9-10			Balancing word equations tests lots of skills!
	3B		Any of them!			Predict products for <u>any</u> type of reaction!
	5		23-25, 26			23-25: Require being careful with parentheses! Still a common mistake! 26: has a long pathway
7	1		11-13			These add in an extra component – writing the formula, metric conversion, density, etc
	2		Any of them!			Any stoich problem can show up – all the same <u>skill</u> just different #'s and formulas!
	3		Any of them!			Any stoich problem can show up – all the same <u>skill</u> just different #'s and formulas!
	5		Any of them!			Any stoich problem can show up – all the same <u>skill</u> just different #'s and formulas!
	6		Any of them!			Any stoich problem can show up – all the same <u>skill</u> just different #'s and formulas!
8	2		Any of them!			All just empirical, molecular or % composition questions!
	5		2, 6			If you can do ones with C, H, O <u>and</u> N you can do any of these problems!
	6		6-8			Combining combustion analysis with % composition is good practice

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