Honors Chemistry – Summer Assignment



I hope you are excited about enrolling in Honors Chemistry for next year. As you probably know, this course is weighted and will be more rigorous and demanding than regular chemistry. Honors chemistry is for the student who desires a more in-depth study of science that will incorporate various aspects of science and math with an emphasis on both mastery and critical thinking/application skills. This is a fast-paced course that requires much outside classroom preparation. This summer assignment is essential to a good foundation as we will be using these elements the ENTIRE SCHOOL YEAR! This class

requires a strong work ethic and the ability to work independently. Let's start strong by getting a head start! If you are ready for the demands of the course, you are expected to complete the following summer assignment. I look forward to seeing you in the Fall!

Google Classroom Code: 4h06tb5

Assignment: Element Memorization

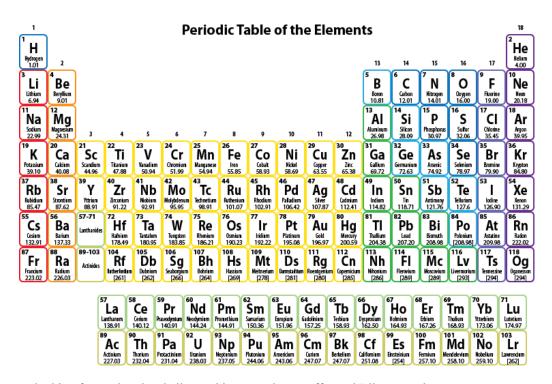
There are practice pages at the end of this document to help you study the element names and symbols. Element Flash Cards is also a GREAT website to help you learn the element names and symbols. The link can be found on Google Classroom. Click the link to the Element Flash Cards Website and click "More options, please" and you can choose exactly what elements you want to study. Do not wait until the end of the summer to begin this assignment! Memorize a few elements every day!

Memorize the 81 required elements – expect an assessment on the first day of school over the required elements

- a. You must memorize elements 1-95 on the periodic table (H through Am)
- b. You are NOT responsible for elements 58-71 (Ce through Lu)
- c. You must memorize symbol (capitalization is important) and correct spelling of the element
- d. You do NOT need to know the numbers nor the location of the elements.

Required: Make flash cards for memorization

Use index cards or cut strips of paper to produce your flash cards. For the elements, put the symbol on one side and the name on the other. Have only one element per card. You will be given a grade for these flash cards and a quiz on the 1st day of School!



Again, I hope you are looking forward to the challenge this course has to offer and I'll see you in August!

Mr.Thomas Honors and AP Chemistry Teacher Mesa Ridge High School thomasje@wsd3.org

Practice Pages

These pages are to help you learn the required 81 elements. For each element 1-95 (excluding elements 58-71), you must correctly spell the name of the element and recall the element symbol with proper capitalization. These pages are not to be turned in. Making flashcards is also recommended as a study tool.

Name	Symbol	Name	Symbol
Hydrogen		Molybdenum	
Helium		Technetium	
Lithium		Ruthenium	
Beryllium		Rhodium	
Boron		Palladium	
Carbon		Silver	
Nitrogen		Cadmium	
Oxygen		Indium	
Fluorine		Tin	
Neon		Antimony	
Sodium		Tellurium	
Magnesium		Iodine	
Aluminum		Xenon	
Silicon		Cesium	
Phosphorous		Barium	
Sulfur		Lanthanum	
Chlorine		SKIP ELEMENTS 58-71	
Argon		Hafnium	
Potassium		Tantalum	
Calcium		Tungsten	
Scandium		Rhenium	
Titanium		Osmium	
Vanadium		Iridium	
Chromium		Platinum	
Manganese		Gold	
Iron		Mercury	
Cobalt		Thallium	
Nickel		Lead	
Copper		Bismuth	
Zinc		Polonium	
Gallium		Astatine	
Germanium		Radon	
Arsenic		Francium	
Selenium		Radium	
Bromine		Actinium	
Krypton		Thorium	
Rubidium		Protactinium	
Strontium		Uranium	
Yttrium		Neptunium	
Zirconium		Plutonium	
Niobium		Americium	

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Name	Symbol	Name	Symbol
	Н		Мо
	He		Тс
	Li		Ru
	Be		Rh
	В		Pd
	С		Ag
	N		Cd
	0		In
	F		Sn
	Ne		Sb
	Na		Te
	Mg		1
	Al		Xe
	Si		Cs
	Р		Ва
	S		La
	Cl	SKIP ELEMENTS 58-71	
	Ar		Hf
	K		Та
	Ca		W
	Sc		Re
	Ti		Os
	V		Ir
	Cr		Pt
	Mn		Au
	Fe		Hg
	Со		TI
	Ni		Pb
	Cu		Bi
	Zn		Ро
	Ga		At
	Ge		Rn
	As		Fr
	Se		Ra
	Br		Ac
	Kr		Th
	Rb		Pa
	Sr		U
	Υ		Np
	Zr		Pu
	Nb		Am

Honors Chemistry- Summer

Name	Symbol	Name	Symbol
Hydrogen			Мо
	He	Technetium	
Lithium			Ru
	Ве	Rhodium	
Boron			Pd
	С	Silver	
Nitrogen			Cd
	0	Indium	
Fluorine			Sn
	Ne	Antimony	
Sodium			Te
	Mg	lodine	
Aluminum			Xe
	Si	Cesium	
Phosphorous			Ва
<u>'</u>	S	Lanthanum	
Chlorine		SKIP ELEMENTS 58-71	
	Ar		Hf
Potassium		Tantalum	
	Ca		W
Scandium		Rhenium	
	Ti	Turcinani	Os
Vanadium		Iridium	
variation	Cr	- Indiani	Pt
Manganese	Ci	Gold	1.0
ividilgaliese	Fe	Join	Hg
Cobalt	10	Thallium	118
	Ni	mamam	Pb
Copper	141	Bismuth	1.5
	Zn	Districti	Po
Gallium	ZII	Astatine	F0
Gailluili	Ge	Astatille	Rn
Arsenic	UE .	Francium	IXII
Alseille	C _O	Francium	Do.
Bromine	Se	Actinium	Ra
	V	Actinium	Th
Dubidium	Kr	Protoctinium	Th
Rubidium	C	Protactinium	11
	Sr	No. 1	U
Yttrium		Neptunium	
	Zr		Pu
Niobium		Americium	

Honors Chemistry- Summer

Name	Symbol	Name	Symbol
Name	Symbol	Nume	Symbol
	Н	Molybdenum	
Helium		· ·	Tc
	Li	Ruthenium	
Beryllium			Rh
,	В	Palladium	
Carbon			Ag
	N	Cadmium	
Oxygen			In
	F	Tin	
Neon			Sb
	Na	Tellurium	
Magnesium			1
-	Al	Xenon	
Silicon			Cs
	Р	Barium	
Sulfur			La
	Cl	SKIP ELEMENTS 58-71	
Argon		Hafnium	
	К		Та
Calcium		Tungsten	
	Sc	<u> </u>	Re
Titanium		Osmium	
	V		Ir
Chromium		Platinum	
	Mn		Au
Iron		Mercury	
	Со		TI
Nickel		Lead	
	Cu		Bi
Zinc		Polonium	
	Ga		At
Germanium		Radon	
	As		Fr
Selenium		Radium	
	Br		Ac
Krypton		Thorium	
	Rb		Pa
Strontium		Uranium	
	Υ		Np
Zirconium		Plutonium	·
	Nb		Am

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Carbon	С	Silver	Ag
Nitrogen	N	Cadmium	Cd
Oxygen	0	Indium	In
Fluorine	F	Tin	Sn
Neon	Ne	Antimony	Sb
Sodium	Na	Tellurium	Te
Magnesium	Mg	lodine	1
Aluminum	Al	Xenon	Xe
Silicon	Si	Cesium	Cs
Phosphorous	Р	Barium	Ва
Sulfur	S	Lanthanum	La
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Vanadium	V	Iridium	Ir
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Manganese	Mn	Gold	Au
Iron	Fe	Mercury	Hg
Cobalt	Со	Thallium	TI
Nickel	Ni	Lead	Pb
Copper	Cu	Bismuth	Bi
Zinc	Zn	Polonium	Ро
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Krypton	Kr	Thorium	Th
Rubidium	Rb	Protactinium	Pa
Strontium	Sr	Uranium	U
Yttrium	Y	Neptunium	Np
Zirconium	Zr	Plutonium	Pu
Niobium	Nb	Americium	Am