

NSC 228 General Chemistry I-Point University

Dr. Felicia Mitchell

Summer Assignment

Welcome to General Chemistry I through Point University! I am excited to partner with you as you explore the fundamental principles of chemistry including the laws of chemical combinations, gas laws, simple structure of atoms, periodic system, states of matter chemistry of non-metals and their important compounds, chemistry of metallic elements and their compounds, and thermochemistry. The topics for General Chemistry I include: chemical nomenclature, stoichiometry, atomic structure, bonding theories, thermochemistry, periodic properties, and gas laws.

1. Please watch the videos posted in the Teams feed and follow along filling out this guided notes packet. This will be turned in the first day of class for a completion grade. We will have a test over the material the second week of school. I suggest watching a few videos a day (they are short) instead of cramming them all at once.

Email me if you have questions.

2. Memorize the following: Flash cards are a good suggestion. You will be allowed a periodic table (symbols only.) A great website to use for practice quizzes is:

<https://www.sciencegeek.net/APchemistry/Quizzes/Ions/>

acetate CH_3COO^-

carbonate CO_3^{2-}

bicarbonate HCO_3^{1-}

nitrate NO_3^{1-}

sulfate SO_4^{2-}

hydroxide OH^{1-}

hydronium H_3O^+

phosphate PO_4^{3-}

Electron Configuration Table

H 1s																	He 1s						
Li 2s	Be																	B	C	N	O	F	Ne
Na 3s	Mg																	Al	Si	P	S	Cl	Ar
K 4s	Ca	Sc	Ti	V	Cr	Mn	Fe	Co	Ni	Cu	Zn	Ga	Ge	As	Se	Br	Kr						
Rb 5s	Sr	Y	Zr	Nb	Mo	Tc	Ru	Rh	Pd	Ag	Cd	In	Sn	Sb	Te	I	Xe						
Cs 6s	Ba	La*	Hf	Ta	W	Re	Os	Ir	Pt	Au	Hg	Tl	Pb	Bi	Po	At	Rn						
Fr 7s	Ra	Ac	Rf	Db	Sg	Bh	Hs	Mt	Ds	Rg													
← 3d →																							
← 4d →																							
← 5d →																							
← 6d →																							
← 7p →																							
← 2p →																							
← 3p →																							
← 4p →																							
← 5p →																							
← 6p →																							
← 7p →																							
← 4f →																							
← 5f →																							

I suggest completing the packet late June or July so the material is fresh on your mind in August.

If you have any questions, please feel free to contact me at fmitchell@princeave.org

I am cheering you on!

Dr. Felicia Mitchell