Day of Week	Date	Skill	Plan
M	10/20/2014	Written objectives & essential ?s located at bottom of lesson plan Learning obj: 5-7 PSc. 2.2.1-5 Unit Q?s: 3,5,6, 9	Entry: Pick up review and begin Review: for Nomenclature, Type of Rxn, Balance Chemical Egn. & Quiz from Fri TEST: Discuss: Depending on time and needs of students- Demo Rxns and calculations Classwork/Homework:
T	10/21/2014	Learning obj: 5-8 PSc. 2.2.3-5,2.26new Unit Q?s: 5-9, focus 10	Entry: Practice Naming Chemical Compounds based on bonding Review: Quiz/Test: Nomenclature, Type of Rxn, Balance Chemical Upon completion of test -Literacy: Mummies- Article with questions COMPLETE and turn in for grade. Discuss: Look over notes and do acid bases sheet Video clip Acid/Base & pH -once test complete. https://www.youtube.com/watch?v=Xeuyc55LqiY
W	10/22/2014	PSc. 2.2.6 concentration Unit Q?s:5-9, focus 10 Learning obj: 5-7	Entry: Review Homework: Acid/ Bases Quiz/Test: Discuss: Acid / Bases Demos: The pH is Right Classwork/Homework: formative assessment http://mysite.cherokee.k12.ga.us/personal/tracy_gardiner/site/Important%20Class%20Documents/1/Acid-Base%20Webquest.pdf Crash Course: acid/base rxns http://www.youtube.com/watch?v=ANi709MYnWg
H	10/23/2013	PSc. 2.2.6 concentration Unit Q?s: 3,5,6, 9 Learning obj: 5-*8*	Entry: Acid/bases Review Homework: Quiz/Test: Discuss: Salts Classwork/Homework: Activity sheet: Acids, Bases & Salts If time begin Radioactivity-
F	10/24/2013	Learning obj: 5-*8* PSc. 2.2.6 concentration Unit Q?s: 3,5,6, 9	Entry: Acid/ Base entry questions - quiz? Review Homework: Quiz/Test: Acid/Bases, salts Discuss: Solutions unsaturated, saturated, supersaturated. Polarity, Ionization, Disassociation, Soln graphs Classwork/Homework:

items at end can move to Friday if students move faster than anticipated

Standards PSc:

2.1.4 Interpret the data presented in the Bohr model diagrams and dot diagrams for atoms and ions of elements 1-18.
2.2.1 Infer valence electrons, oxidation numbers, and reactivity of an element based on its location in the Periodic Table.
2.2.2 Infer type of chemical bond that occurs, whether covalent, ionic, metallic, in a given substance.
2.2.3 Predict chemical formulas and names for simple compounds based on knowledge of bond formation and naming conventions.
2.2.4 Exemplify the law of conservation of mass by balancing chemical equations.
2.2.5 Classify types of reactions such as synthesis, decomposition, single replacement, or double replacement.
2.2.6 Summarize the characteristics and interactions of acids and bases
2.3.1 Compare nuclear reactions including alpha decay, beta decay, and gamma decay; nuclear fusion and nuclear fission.
2.3.2 Exemplify the radioactive decay of unstable nuclei using the concept of half-life.

Essential Q's #: How is the composition of atoms related to chemistry in general?

Unit Questions #:

3. What is involved in a chemical reaction and why do they need to be balanced?
4. Why do atoms want/need to bond?
5. How do I name a chemical and what can I learn from the name?
6. How do I write a chemical formula and what can I learn from writing the formula?
7. How can I use the periodic table to tell me everything I need to know about each element (atomic #, proton #, neutron #, atomic mass, valence #.....)?
8. What does Polyatomic mean?
9. What is the importance of classifying the different types of reaction?
10. What makes an acid an acid and a base a base?
11. What are the advantages and disadvantages to radioactivity and our understanding of it?
12. Why is it important to know the half-lives of radioactive isotopes?

Content Q's #:

1. How do I balance a chemical reaction?
2. What are the components of an atom?
3. What are oxidation numbers?
4. How do I use the periodic table?
5. How do I classify reactions?
6. How can I tell the difference between an acid and a base.
7. What types of Radiation are there?
8. How do I calculate half-life?

Learning Objectives

1 I will be able to understand the atom both conceptually and mathematically.
2 I will understand and be able to draw Bohr models and dot diagrams.
3 I will understand periodic law and how to utilize the periodic table for oxidation numbers, valence electrons, number of energy levels, classification between metals and nonmetals, and the type of bond.
4 I will be able to distinguish the difference between atoms and their isotopes.
5 I will be able to name and write chemical formulas.
6 I will be able to balance chemical equations.
7 I will be able to classify chemical equations.

8 I will be able to understand the difference between acids and bases.
9 I will understand the differences between the different types of radiation.
10 I will understand the differences between fission and fusion.
11 I will understand half-lives both conceptually and mathematically.

For Monday 10/27	Entry: Acid/ Base entry questions - quiz?
Psc. 2.1.4, **2.3.1-2**	Review Homework:
Unit Q?s: 11,12	Quiz/Test:
Learning obj: 10,11	Discuss: Radioactivity & Half life
	Classwork/Homework: Twizzler Half Life Lab - Half life problems