***Lesson Plans for the Week of: 3/13/17 Teacher: Hough Course: Chemistry Period: 1,3,7/8***

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| Elements of  a Lesson | **Monday** | **Tuesday** | **Wednesday** | **Thursday** | **Friday** |
| Objective/  Focus/  Essential  Question | CH.4a,b  Define limiting reactant  Use BCA diagrams to determine the limiting reactant | CH.24a,b (possibly CH.2f,i)  define percent yield  Review, reteach topics of the week, as necessary | CH.2a,c,d,i  Modern Model of the atom (define valence electron)  Understand the following topics about the periodic table:  --Mendeleev developed it and arranged it in order of atomic mass  --atomic number provides the number of protons and electrons  --elements in the same group have the same number of valence electrons and similar chemical properties | CH.2a,c,d,i; 4a,b  Review for Test  VP tests | CH.2a,c,d,i; 4a,b  Test  VP tests |
| Lesson/Act.  Type of Presentation | Whole group:  Define limiting reactant and theoretical yield  Model how to use BCA diagrams to determine the limiting reactant and excess reactant from OneNote sample problem  Guided practice: have students identify the limiting reactant for the practice problems  independent practice of same skill | Whole group:  a) go over homework problems  b) define percent yield and actual yield; explain how this applies to chemical equations  c) model how to use actual yield to calculate percent yield  Individual:  d) Students will calculate percent yield | Whole group:  Explain features of the Modern Model of the atom, esp the electron cloud  Direct instruction explaining the discovery of the periodic table and the significance of the atomic number  Define valence electron; explain how to determine the number of valence electrons for an atom of an element  Examples from the periodic table will be given to help illustrate the number of protons, electrons, and valence electrons, |  |  |
| Evaluation | teacher observation of student work and questions: p. 402-403 #26-29; p. 412 #53 | a) teacher observation of student work and questions  b) correct work on worksheet |  |  |  |
| Extension/  Homework | Limiting reactant problems | remainder of worksheet 2 |  |  |  |

MATERIALS:

Monday: Phet simulation <https://phet.colorado.edu/en/simulation/reactants-products-and-leftovers> ; limiting reactant problems

Tuesday: teacher-made worksheet; Unit 8 worksheet 2 from modeling curriculum

Wed.:

Thursday:

Friday: