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

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| Elements ofa Lesson | **Monday** | **Tuesday** | **Wednesday** | **Thursday** | **Friday** |
| Objective/Focus/Essential Question | CH.4a,bDefine limiting reactantUse BCA diagrams to determine the limiting reactant | CH.24a,b (possibly CH.2f,i)define percent yieldReview, reteach topics of the week, as necessary | CH.2a,c,d,iModern 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,bReview for TestVP tests | CH.2a,c,d,i; 4a,bTestVP tests |
| Lesson/Act.Type of Presentation | Whole group:Define limiting reactant and theoretical yieldModel how to use BCA diagrams to determine the limiting reactant and excess reactant from OneNote sample problemGuided practice: have students identify the limiting reactant for the practice problemsindependent practice of same skill | Whole group:a) go over homework problemsb) define percent yield and actual yield; explain how this applies to chemical equationsc) model how to use actual yield to calculate percent yieldIndividual:d) Students will calculate percent yield | Whole group:Explain features of the Modern Model of the atom, esp the electron cloudDirect instruction explaining the discovery of the periodic table and the significance of the atomic numberDefine valence electron; explain how to determine the number of valence electrons for an atom of an elementExamples 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 questionsb) 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: