***Lesson Plans for the Week of: 3/6/17 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  correctly use BCA (before-change-after) diagrams to solve mole-gram stoichiometry problems | CH.4a,b  correctly use BCA (before-change-after) diagrams to solve gram-mol stoichiometry problems | CH.4a,b  Solve variety of stoichiometry problems with conversions | 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 |
| Lesson/Act.  Type of Presentation | Whole group:  Go over homework  Guided practice of mol-mol stoichiometry  Individual:  Independent practice: mol-g stoichiometry | Whole group:  Bellwork: mol-mol stoichiometry problem  Go over homework  define theoretical yield  Model how to solve a gram-mol stoichiometry problem  Guided practice of the same  Individual:  Independent practice solving a gram-mol stoichiometry problem | Turn in homework  Practice stoichiometry with various conversions  Differentiation: Students with higher abilities work more independently, and work greater variety of conversion problems | Whole group:  Define limiting reactant  Model how to use BCA diagrams to determine the limiting reactant and excess reactant  f) have students identify the limiting reactant and theoretical yield of one product for the practice problems  g) independent practice on rest of worksheet | 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 |
| Evaluation | Teacher observation of student reaction and what students have written on their worksheets; bellwork | Teacher observation of student reaction and what students have written on their worksheets | correct work on worksheet | teacher observation of student work and questions | a) teacher observation of student work and questions  b) correct work on worksheet |
| Extension/  Homework | Mol-mol stoichiometry textbook | Accuracy mol-mol | Accuracy stoichiometry with conversions | Limiting reactant problems | remainder of worksheet 2 |

MATERIALS:

Monday: Modeling ws 1; Phet simulation https://phet.colorado.edu/en/simulation/reactants-products-and-leftovers

Tuesday: teacher-made accuracy assignment; teacher-made mol-g OneNote worksheet;

Wed.: Variety of stoichiometry problems; stations?

Thursday: limiting reactant problems

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