***Lesson Plans for the Week of: 4/3/17 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.2a,d,e,g  -- Understand the following topics about the periodic table:  --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  --Practice writing electron configuration for an element | CH.2d;3d  --Correctly draw Lewis diagrams for elements and simple compounds, such as CH4, C2H6, C2H4, C2H2, CH2O, C6H6 | CH.2a,d,e,f,g;3d;5b  Review for Test | Test | CH.4c; 5f  Define, calculate molarity  Factors which affect solubility  Interpret solubility curve |
| Lesson/Act.  Type of Presentation | Whole group:  Examples from the periodic table will be given to help illustrate the number of protons, electrons, and valence electrons; isotope?  explain how to determine the number of valence electrons for an atom of an element using periodic table; note maximum number of valence electrons  Connect this to ion charge  Model samples: nitrogen, sulfur, copper  Connect electron configuration with element location on the periodic table  Individual:  Students write electron configuration for a few elements: fluorine, calcium | Whole group:  a) explain how to draw Lewis diagram for simple compounds (listed above), include double and triple bonds: include ammonia, carbon monoxide, carbon dioxide [p 227 textbook]  b) show how the dots are commonly adjusted to dashes in diagrams  c) model how to draw Lewis diagrams  Individual:  d) draw Lewis diagrams for compounds | Review for test  Kahoot? | Test  Definitions: solution, solvent, solute, solubility, saturated  Memorization list of acids and bases | Review terms from previous day  Explain the factors which change solubility  Explain how to interpret a solubility curve  Model how to calculate molarity  Students practice using the molarity equation: p. 526#11, p. 548#57a,b |
| Evaluation | As a group: p. 199#3 (maybe #7) to determine # valence electrons  Students write electron configurations for three elements | p. 214#29 Lewis diagrams for elements  Student independent work |  |  |  |
| Extension/  Homework | Students write electron configurations: p. 136#8,9 |  |  |  | p. R63 #177,179 all |

MATERIALS:

Monday: spdf diagram, periodic table

Tuesday

Wed.:

Thursday:

Friday: