Conceptual chem

TEACHING TRANSPARENCY WORKSHEET

Balancing Chemical Equations Use with Chapter 9,

1. Examine the following equation.

$$Mg(s) + Ag_2S(s) \rightarrow MgS(s) + Ag(s)$$

- a. How many atoms of magnesium are on each side of the equation?
- b. Which element does not have the same number of atoms on both sides of I water and acids the equation?
- c. Write the balanced equation for this reaction.
- 2. Follow the steps for balancing a chemical equation and write a response for each 100000 step for the reaction in which iron metal (Fe) burns in oxygen (O2) to form iron(III) oxide (Fe₂O₃). All replace the hydrogen in muisangeM Alignium
 - Step 1: _____
 - Step 2: ______
 - Step 3:
 - Step 4: _____
 - Step 5: _____
 - 3. For each of the following, use at least one of the rules for balancing equations to explain. why the equation is not properly balanced. Then write a correctly balanced equation for l are mostly unread Silver each reaction.
 - **a.** $2H_2O(1) + 2CO_2(g) \rightarrow 2H_2CO_3(aq)$
 - Platinium | December in a compound
 - **b.** $MgNO_{32}(aq) + 2K(s) \rightarrow Mg(s) + 2KNO_3(aq)$
 - moonish
 - c. $AlCl_3(aq) + AgNO_3(aq) \rightarrow AgCl(s) + Al(NO_3)_3(aq)$ eninoul4