

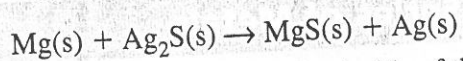
TEACHING TRANSPARENCY WORKSHEET

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Balancing Chemical Equations

Use with Chapter 9,
Section 9.1

1. Examine the following equation.



- 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 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 step for the reaction in which iron metal (Fe) burns in oxygen (O_2) to form iron(III) oxide (Fe_2O_3).

Step 1: _____

Step 2: _____

Step 3: _____

Step 4: _____

Step 5: _____

Step 6: _____

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 each reaction.

