

# Balancing Chemical Equations

**Learning Goals:** I will be able to ...  
- write balanced chemical equations

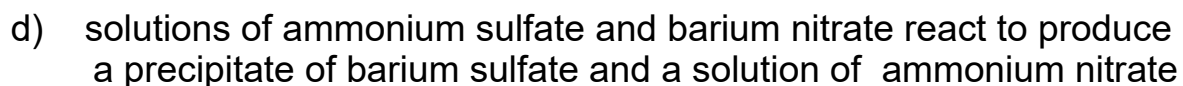
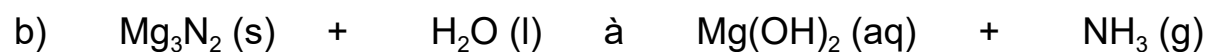
## Overview Video

 <http://www.youtube.com/watch?v=8KH3laR2iR4>

## Guidelines for Balancing Chemical Equations:

- Write the skeleton or unbalanced equation (include states)  
\*remember H O B r F I N C l \*
- Balance metals first, then non-metals
- Treat polyatomic ions as one entity and balance
- Balance hydrogen and oxygen last
- Check that the coefficients are in the lowest possible ratio

## Let's Try the Following



## For Example:

Skeleton Equation



Fe - 1

Na - 1

Cl - 3

O - 3

H - 3

Fe - 1

Na - 1

Cl - 1

O - 3

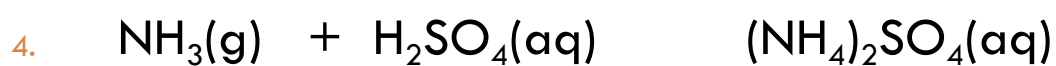
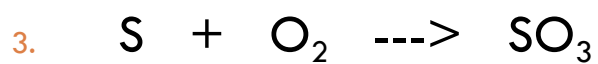
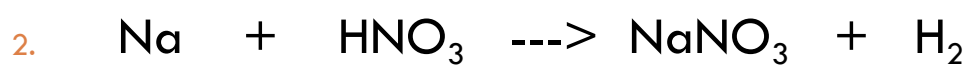
H - 3

3

3

X 3 = 3    X 3 = 3

## Examples:



## Task - Handout