Balancing Act

OVERHEAD COPY

Atoms are not **created** or **destroyed** during a chemical reaction. Scientist know that there must be the **same** number of atoms on each **side** of the **equation**. To balance the chemical equation, you must add **coefficients** to the different parts of the equation.

1) Determine number of atoms for each element.

2) Try to add <u>coefficients</u> to the equation to get the same number of atoms on each side.

$$\square\,Mg + \square\,O_2 \longrightarrow \square\,MgO$$

Mg = 1 Mg = 1

O = 2 O = 1

Try these:

2. $\square\,Ca + \square\,O_2 \longrightarrow \square\,CaO$

Ca = Ca =

O = O =

3. $\square\,H_2O_2 \longrightarrow \square\,H_2O + \square\,O_2$

H = H =

O = O =

4. $\square\,N_2 + \square\,H_2 \longrightarrow \square\,NH_3$

N = N =

H = H =

5. $\square\,Cu_2O + \square\,C \longrightarrow \square\,Cu + \square\,CO_2$

Cu = Cu =

O = O =

C = C =