Balancing equations

REACTANTS ←→ PRODUCTS

When an equation is balanced, it shows what is happening in a reaction.

We use the formulas and symbols of all the substances in the reaction to work out the products. So, how do we balance equations?

I. Decide the types of atoms in the equation.
II. Under the reactants side of the equation, count how many of each atom we have.
III. Under the products side of the equation, count how many of each atom we have.
IV. Balance both sides using big numbers in front of the compounds and elements/atoms to make them the same amount. (we cannot input small numbers ourselves)