**Balanced Chemical Equations**

In Science class today, Mr. Smith taught us about balancing chemical equations.

Things I learned:

* The chemical formula for photosynthesis is:
  + 6(H2O) + 6CO2 → (sunlight) C6H12O6 + 6O2
* The chemical formula for burning wood is:
  + (C6H10O5)n + 6CO2 → CO2 + 11H2O + heat
* The chemical formula for burning sugar is:
  + (C12H22O11) + 12O2 → 12CO2 + 12H2O (using sucrose sugar)
  + (C6H12O6) + 6O2 → 6CO2 + 12H2O (using glucose sugar)
* If you could not burn sugar, we would not be alive, as this is how we make energy.
* There are things in our bodies called enzymes, which work somewhat like catalysts.
* H2O(ag) → H2(g) + O2(g) – This is an unbalanced equation because there is one oxygen molecule on one side and two on the other.
* This is the balanced version:
  + 2H2O(ag) → H2(g) + O2(g)
* “ag” stands for aqualine, or liquid.
* “g” stands for gaseous.
* “cr” stands for crystalline, or solid.

