

LOS: Chemical Formula, Chem. Symbol,  
Chem. Equation, Coefficient, Subscript

Identifying  
Elements

Focus Questions:

Today's Date

What do the numbers and letters mean in a chemical formula?

How do you write a balanced chemical equation?

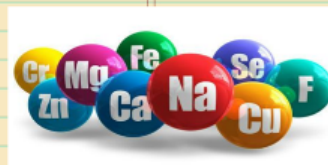
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Evidence: Understanding Chemical Equations, Vocab, Rules

How do I  
show the  
elements  
and their  
amounts in a  
molecule ?

Ex:



**Rule:** 1st letter always CAPITAL  
2nd letter always lowercase  
2 CAPITALS together = 2 diff. elements

Subscript

Ex:

How many  
molecules  
are needed?

Quantity of molecules in a  
Chemical Equation

Ex:

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How do I  
show the  
entire  
chemical  
reaction?

Symbols and numbers used to  
explain the type(s) of atom(s)  
and amount in a molecule.

Ex:

Is **MASS**  
**CONSERVED?**

Chemical  
Equation

Ex:

It's the  
**LAW!**

Law of Conservation of Mass

Atoms or Mass cannot be created or  
destroyed during a chemical reaction.

Therefore...the **START MASS**  
**MUST EQUAL** the **END MASS**

**Photosynthesis**

**Balanced ?**          $\text{CO}_2$  +       $\text{H}_2\text{O}$  + SUN ==>       $\text{C}_6\text{H}_{12}\text{O}_6$  +       $\text{O}_2$

Summary:

