**Chemical Formulas and Molar Masses**

**Intro Video**

<https://www.youtube.com/watch?v=wI56mHUDJgQ>

\_\_\_\_\_\_\_\_\_\_\_\_\_\_ \_\_\_\_\_\_\_\_\_\_\_\_\_\_ - Otherwise known as:

\_\_\_\_\_\_\_\_\_\_\_\_\_\_ Weight, \_\_\_\_\_\_\_\_\_\_\_\_\_\_ Mass, \_\_\_\_\_\_\_\_\_\_\_\_\_\_ mass, \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ weight

It is defined as the \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ in grams of \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ mole of a substance

**How to determine Molar Mass (Molecular Weight)**

1. \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ the quantity of each element involved in the substance by the \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ (from the periodic table) of those elements

2. \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ the masses calculated in step one together

This is the molar mass of the substance in \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ or \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

Examples

Find the molecular weight of the following substances:

Ozone, O3

A phosphate ion, PO4-3

Arsenic trichloride

Ammonium carbonate, (NH4)2CO3

More Examples

Iron (III) Oxide, Fe2O3

Magnesium Chloride, MgCl2

Methane, CH4

Water, H2O

Copper (II) acetate, Cu(C2H3O2)2

Iron (II) Oxide