

## Chemical Formulae Exercise

### Objective

Students will be able to:

1. Calculate the relative molecular mass ( $M_r$ ) of a compound from its chemical formula.  
 2. Calculate the relative atomic mass ( $A_r$ ) of an element from its chemical formula.  
 3. Calculate the relative formula mass ( $M_r$ ) of an ionic compound from its chemical formula.

4. Calculate the relative atomic mass ( $A_r$ ) of an element from its chemical formula.

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Notes: The relative atomic mass ( $A_r$ ) of an element is the mass of one atom of the element relative to 1/12th the mass of a carbon-12 atom.

Chemical Formula	Relative Atomic Mass ( $A_r$ )	Relative Molecular Mass ( $M_r$ )	Relative Formula Mass ( $M_r$ )	Relative Atomic Mass ( $A_r$ )
$H_2O$	1	18	18	16
$CO_2$	12	44	44	16
$CaCl_2$	40	111	111	35.5
$Na_2SO_4$	23	142	142	32
$Al_2O_3$	27	102	102	16