



INTRODUCTION

BALANCING EQUATIONS: A CHEMICAL EQUATION IS BALANCED WHEN THERE ARE EQUAL NUMBER OF ATOMS AND CHARGES ON BOTH SIDES OF THE EQUATION

STATE SYMBOLS:

O(S) = SOLID

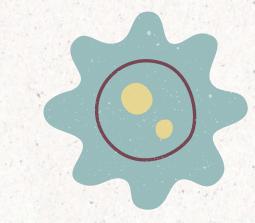
O(L) = LIQUID

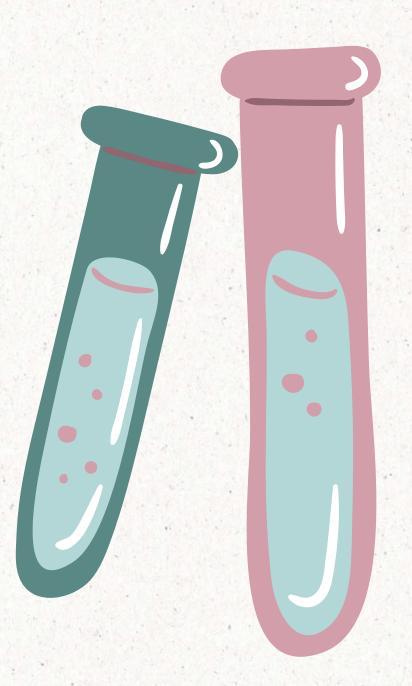
O(G) = GAS

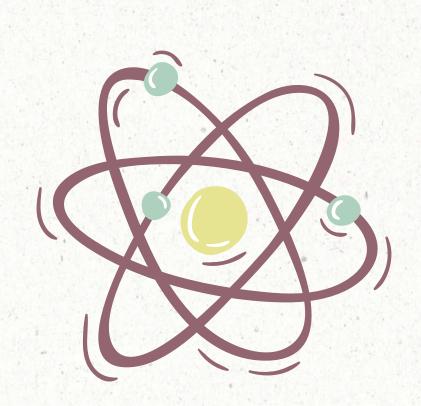
O(AQ) = AQUEOUS SOLUTION

RELATIVE ATOMIC MASS (AR): MASS OF ONE ATOM OF AN ELEMENT RELATIVE TO ONE TWELFTH OF THE MASS OF ONE ATOM OF CARBON-12

RELATIVE MOLECULAR MASS (MR): SUM OF RELATIVE ATOMIC MASSES OF ALL THE ATOMS IN ONE MOLECULE OF THE COMPOUND



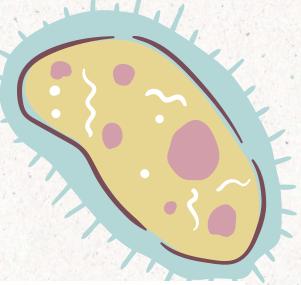






THE MOLE CONCEPT





NUMBER OF MOLES = MASS
MOLAR MASS

CONCENTRATION = MOLE NUMBER OF SOLUTE VOLUME OF SOLUTION

EMPIRICAL FORMULA: THE SIMPLEST WHOLE-NUMBER FORMULA

MOLECULAR FORMULA MUST BE CALCULATED USING THE RELATIVE MOLECULAR MASS (MR) OF THE COMPOUND.

