

<u>Avogadro's number</u>: 1 mole = 6.02 × 10²³ particles

- Particles can be atoms, molecules, ions, etc.

<u>Molar mass</u>: the number of grams of a substance required to equal 1 mole of that substance - Use atomic masses from the periodic table to calculate molar mass.

<u>STP Gas relationship</u>: at STP, 1 mole of gas = 22.4 L gas.

- STP (<u>S</u>tandard <u>T</u>emperature and <u>P</u>ressure) = 0° C and 1 atm pressure

Molarity: measure of concentration of a solution

- Moles of solute / volume (in liters) of solution

<u>Molar ratio</u>: numerical relationship between any 2 substances in a reaction - Use coefficients from balanced equation.

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