











Dilution

Often you will start with a solution of a given concentration and need to prepare a solution of lesser concentration. How do you determine the volume that must be diluted to prepare this solution?

$$M_{conc}V_{conc} = M_{dil}V_{dil}$$

Look at the units:

"Dilution by mass" works and may be more convenient!

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Taking Advantage of Stoichiometry:

Use stoichiometric relations to calculate an unknown quantity based on the quantity of a product produced or reactant consumed on a reaction.

$$A + B \rightarrow C + D$$

- Gravimetric Methods
- Titrimetric (Volumetric) Methods