

Defining Chemistry and Equilibrium

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Studying the Transformation of matter (Reaction):

→ **through time**: chemical kinetics

→ **through space**: chemical engineering

Using a catalyst to increase the rate of a chemical reaction:



A chemical reaction happens between atoms.

Chemistry is the preservation of the atom \neq nuclear physics

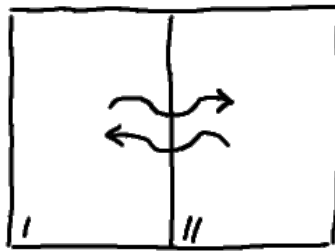
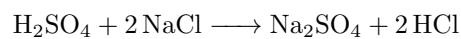


Figure 1: THE GOAL OF OSMOSIS IS EQUILIBRIUM

I : high concentration solution

II : low concentration solution

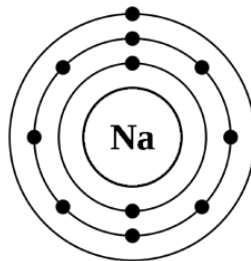


Figure 2: RUTHERFORD'S MODEL

the position of electrons in layers: 2 - 8 - 18 - 32