Enzymes: They are mostly **proteins**. Enzymes act as **catalysts.**

Catalysts: **Increase** the rate of reaction. Catalysts do not get consumed during a reaction. It continues to act repeatedly.

Activation energy: The **minimum energy required** to start a reaction. Enzymes lower the activation energy and hence increase the rate of reaction.

Substrates: Enzymes act on substrate molecules to generate **product (final result)**

Inhibitor: They decrease the enzyme activity by bonding to the **active site** of the enzyme and blocking the enzyme activity.

Induced fit: Enzyme’s active site and substrate binding changes the enzyme shape slightly so it is a snug fit. This adjustment is called Induced fit.

Denature enzyme: Enzymes lose its shape and activity due to temperature, pH, chemicals. When proteins lose their 3d structure and become non-functional, it is denatured.