- o The optimal pH level is one of 6-8
- Salt
 - Changes in salinity adds or removes cations and anions
 - Cation: positive ion
 - Anion: negative ion
 - o Disrupts bonds 3D shape, causing enzyme to denature
- Cofactors: nonprotein helpers for catalytic activity
 - o Can bind tightly to enzyme or loosely to substrate
 - o Causes change in shape
- Inhibitors
 - o Competitive inhibitor: blocks substrates from binding to active site by taking its place
 - o Noncompetitive inhibitor: n Notesale.co.uk ge 2 of 2 binds to enzyme in location other than active site, causing enzyme to change shape

- binding and is a part of the reaction
- It prevents unnecessary overproduction of the product

ALLOSTERIC REGULATION

- Allosteric regulation is the regulation of enzymes by building a 🔰 to a site oth
- The site that the regulatory molecules bind to are called allosteric sites
- Regulation is done through allosteric activation or allosteric inhibition
 - o Allosteric activation: stabilizes shape that has functional active sites by enhancing attraction between substrate and OTHER binding sites
 - o Allosteric inhibition: stabilizes inactive enzyme by decreasing attraction between substrate at other active sites
- Similarly, feedback inhibition, or negative feedback, is a method of metabolic control
- Feedback inhibition occurs when the end product of an enzyme prevents the continuing of the metabolic pathway by inhibitory