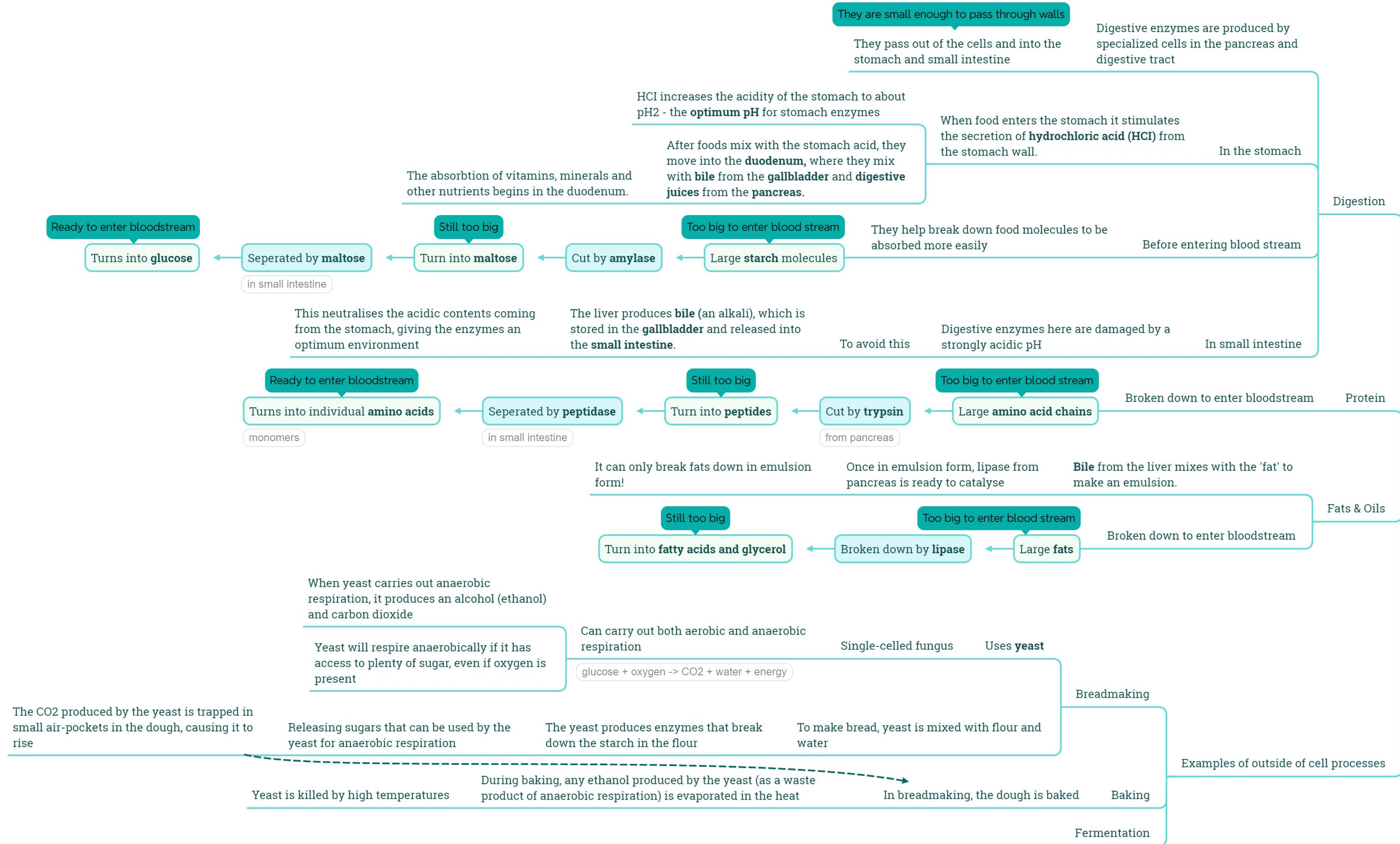
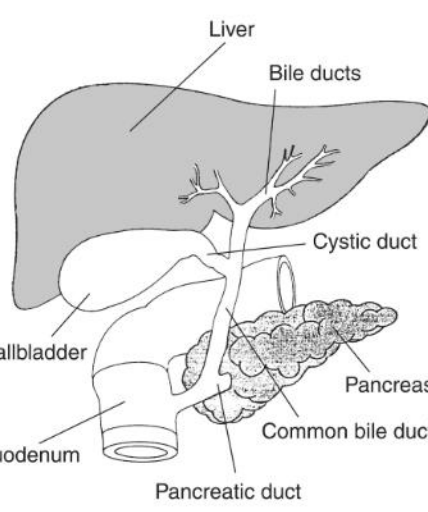




Some examples of reactions catalysed by enzymes

Enzymes in Cells

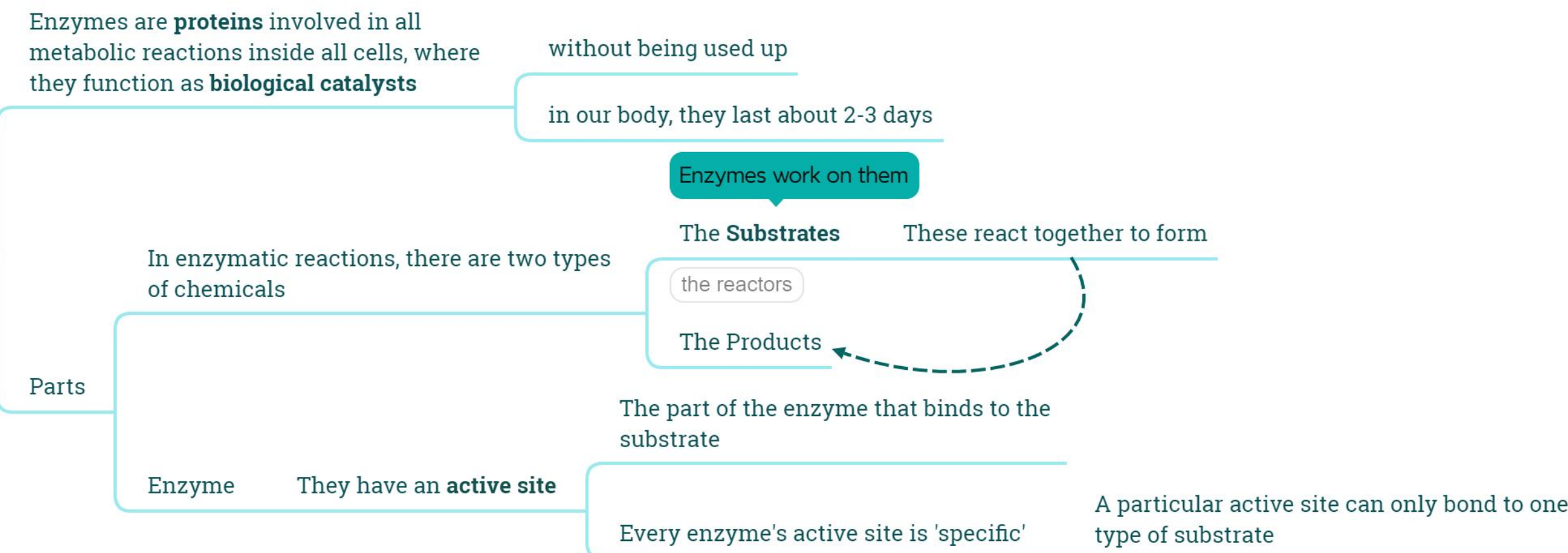


Glucose is needed in our body for respiration

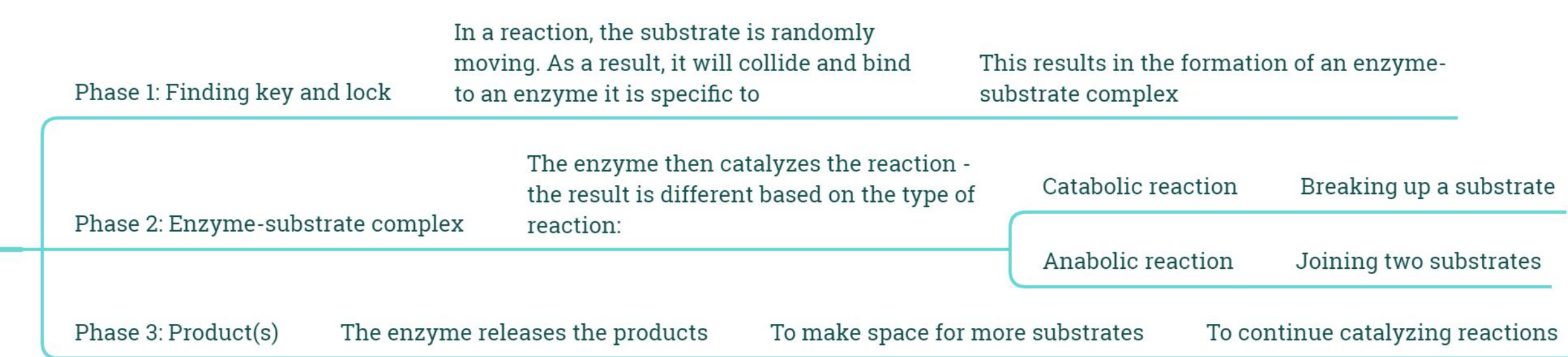
Note

B5.1 Enzymes	
Core	Supplement
1 Describe enzymes as proteins that are involved in all metabolic reactions, where they function as biological catalysts	3 Describe and explain enzyme action with reference to: the active site, enzyme-substrate complex, substrate and product
2 Investigate and describe the effect of changes in temperature and pH on enzyme activity	4 Describe and explain the specificity of enzymes in terms of the complementary shape and fit of the active site with the substrate
	5 Explain the effect of changes in temperature on enzyme activity in terms of kinetic energy, shape and fit, frequency of effective collisions and denaturation
	6 Explain the effect of changes in pH on enzyme activity in terms of shape and fit and denaturation

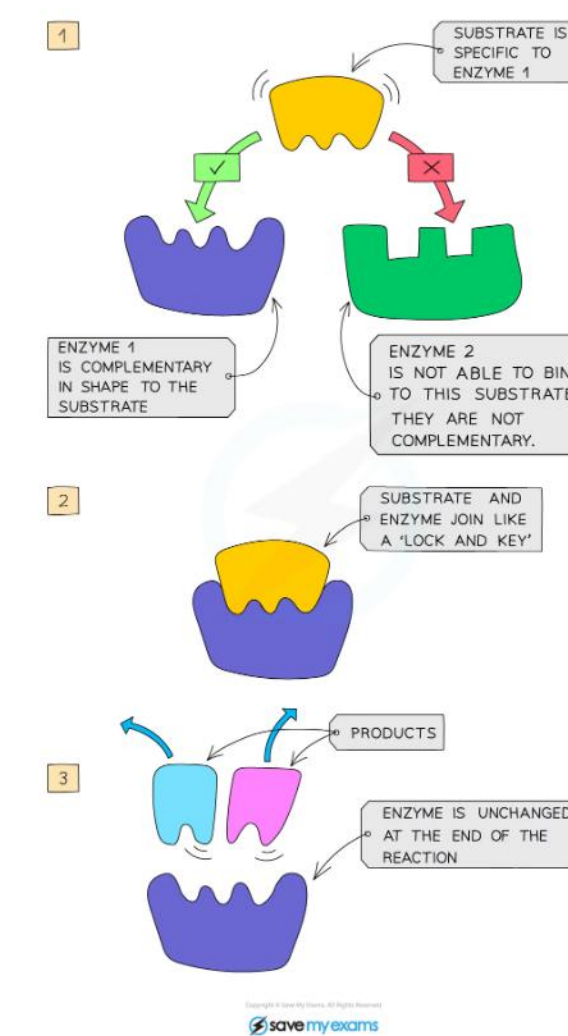
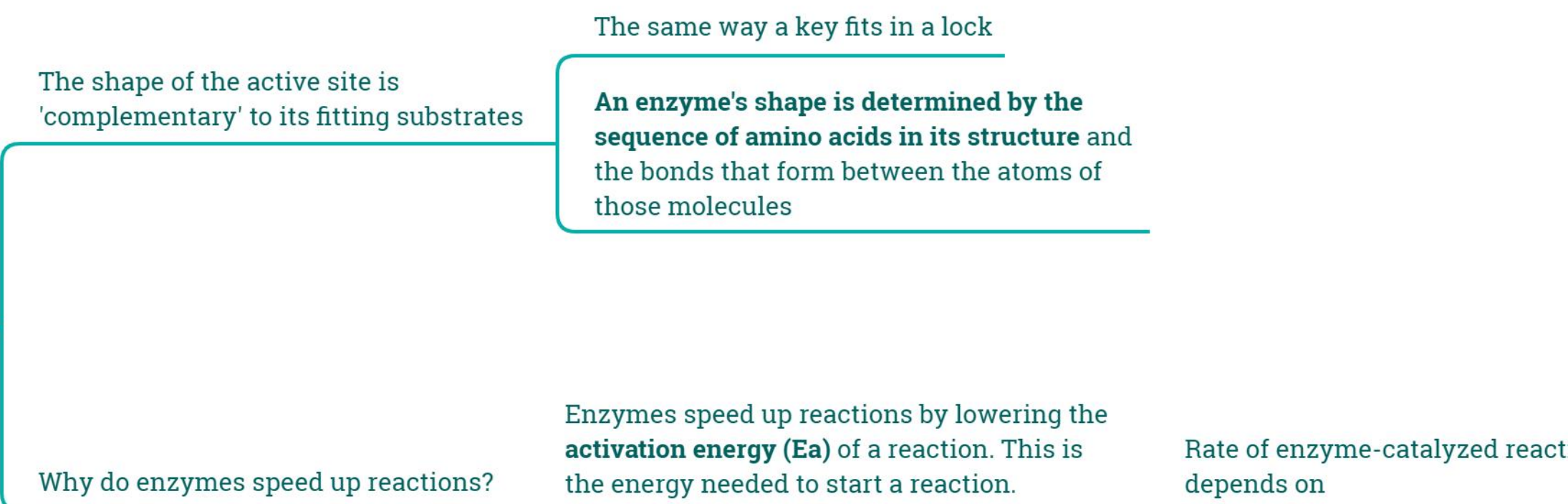
Definition



The Reaction

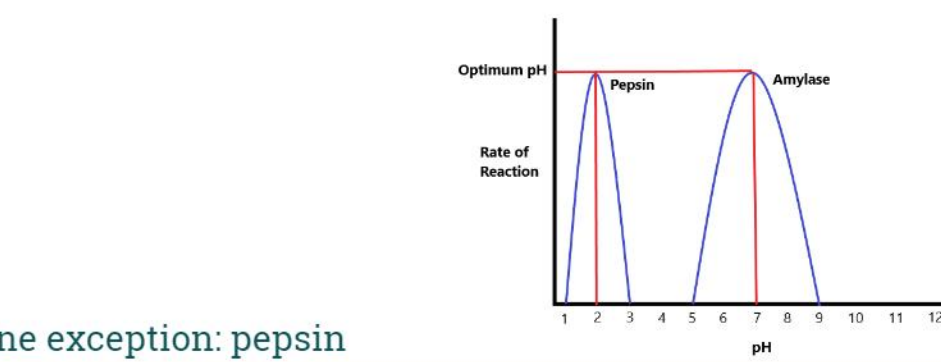
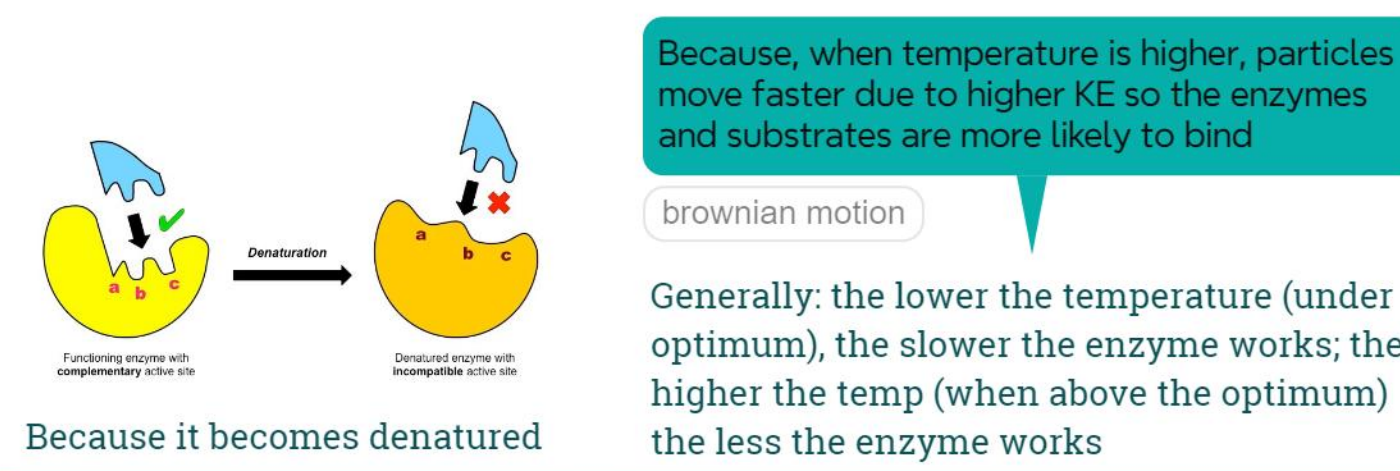
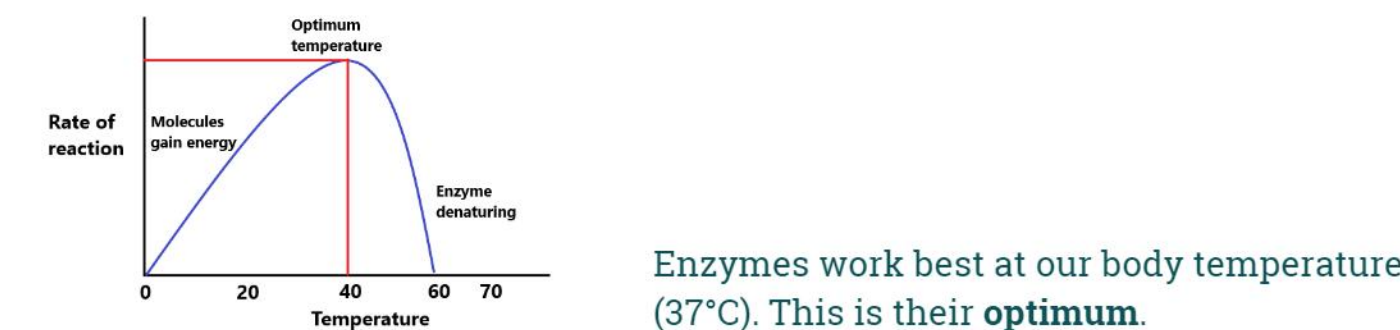


Lock & Key Mechanism



B5 - Enzymes

Effects



This enzyme is present in our stomach, therefore functions best in our stomach's acidic conditions - pH2