

RB2 - Enzymes and ATP – Biology Revision

What is the monomer subunit of an enzyme?	How does the induced-fit model differ from the lock and key model of enzyme action?			Label t
Enzymes are examples of biological catalysts. In general, how do enzymes do this? How do catalysts make a chemical reaction more favourable?	Enzymes are highly specific, meaning that that will only form an enzyme-substrate complex with certain substrates. Explain what makes each enzyme so specific to a set of substrates:			Explair
How does an inhibitor stop an enzyme working as effectively?		If the conc rate	e concentration of substrate was increased, but the entration of enzyme remained constant, how would the of reaction change?	ATP is the two
Inhibitor X binds to an enzyme away from its active site. Explain whether it is a competitive or non-competitive inhibitor:	Explain how changing the concentration of H ⁺ ions within a system could prevent an enzyme from working effectively:			What is
				How do
	Explain why enzymes denature at high temperatures:	Rate of reaction		When A phosph phosph reactiv Explain
			Substrate concentration	



the three constituents of ATP: why ATP is a nucleotide derivative: hydrolysed by the enzyme ATP hydrolase. What are o products of this? is the role of ATP? oes ATP hydrolase allow this to happen? ATP hydrolase breaks down ATP, it often horylates other compounds. When a compound is horylated, does it tend to become more or less /e?

how ATP is resynthesised in the body: