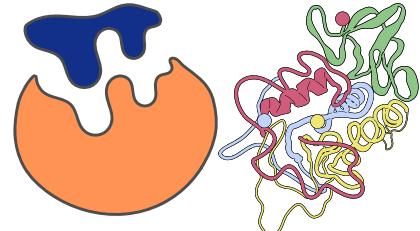




Enzymes

Enzymes and Metabolism

What is an enzyme?



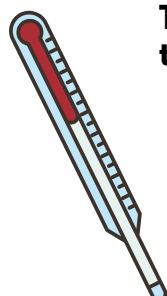
How do enzymes relate to metabolism?

What feature of enzymes make them specific to certain reactions?

Draw and label a simple diagram of the lock and key model for enzymes.
Explain the lock and key model underneath.

Explanation:

What happens to enzyme activity if...



Temperature rises
too high?



pH is not at the
optimal level?



Enzymes

Digestive Enzymes

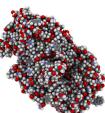
Match the enzyme to the substrate and product

Enzyme

Substrate

Product

Amylase



Starch



Amino acids



Protease



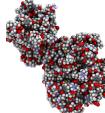
Lipids (fats)



Simple sugars



Lipase

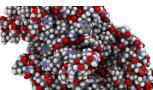


Proteins



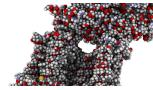
Glycerol + Fatty Acids

Amylase



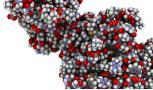
Is produced in the s_____g_____, p_____ and s_____ i_____

Protease



Is produced in the s_____, p_____ and s_____ i_____

Lipase



Is produced in the p_____ and s_____ i_____

Why are digestive enzymes important for absorption?

Draw and label a simple diagram the induced fit model (alternative to the lock and key model). Explain how it differs from the 'lock and key' model.

Explanation:
