Name: .....

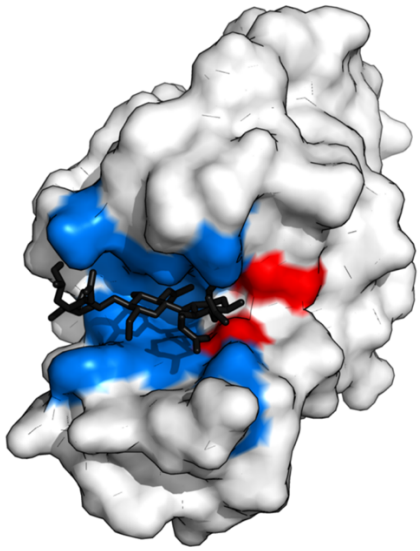
Date: .....

Class: .....

IGCSE BIOLOGY EDEXCEL 9-1

CHAPTER WORKBOOK

Biological Molecules - Enzymes



Enzymes

1. Define "enzyme".

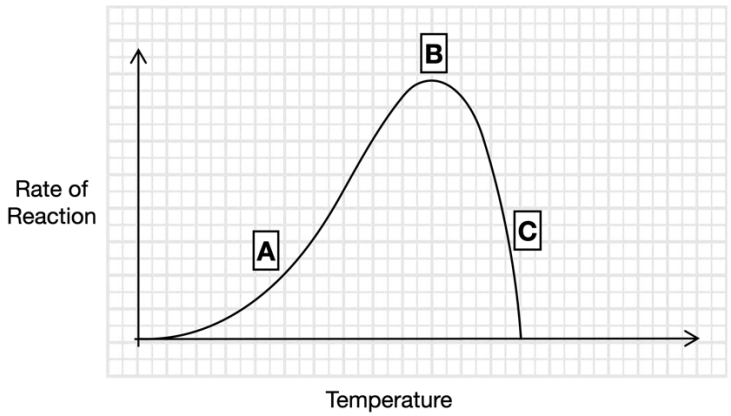
.....

.....

2. In the space below draw a diagram to outline the lock and key hypothesis. Include the below words as labels.

Enzyme	Substrate	Enzyme-substrate complex
	Active site	Products

3. The graph below shows how the rate of an enzyme-catalysed reaction changes over time.



a) Explain the rate of reaction at points A, B and C.

A	…… …… ……
B	…… …… ……
C	…… …… ……

b) In terms of the active site state what happens when an enzyme becomes denatured.

……

c) The enzyme presented in question 3 is an enzyme found in the human digestive system. State **and** explain what the temperature is likely to be at point B.

……

……

……

……

d) Explain the effect of pH on the rate of an enzyme-catalysed reaction.

.....

.....

.....

.....