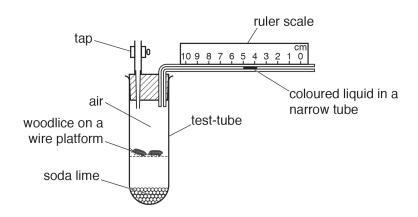
1	Yeast cells make the enzyme sucrase. Sucrase catalyses the breakdown of sucrose to gluco and fructose.	se
	Enzymes are made of protein.	
	Explain how the shape of a sucrase molecule is related to its function.	
		[2]
	[Tot	[2] al: 2]
2		ai. 2j
2	The shape of a protein is very important for its function.	
	Explain the importance of shape for the function of an enzyme.	
		[3]
	[Tot	al: 3]
3	Enzymes are biological catalysts.	
	Define the term catalyst.	
		[0]
		[2]
	[Tot	al: 2]

4 A student investigated the rate of oxygen uptake during aerobic respiration in woodlice. Woodlice are arthropods.

The diagram shows the apparatus the student used. Soda lime absorbs carbon dioxide.

When the tap is closed air cannot move into or out of the apparatus. The coloured liquid moves when the tap is closed.



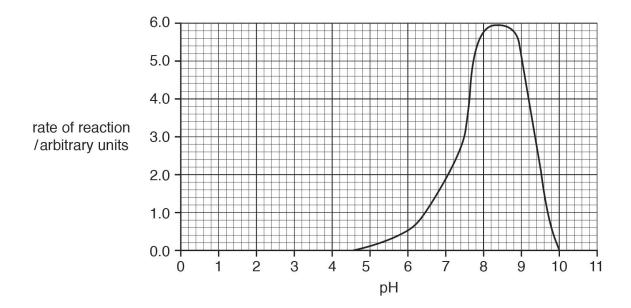
The table shows the results of this investigation.

time / minutes	position of the coloured liquid on the ruler scale / cm
0	1.0
2	2.1
4	3.1
6	4.2
8	5.5
10	5.9
12	7.5

[i	2]

[Total: 2]

5 The graph shows how the rate of reaction of a digestive enzyme changes with pH.



State one factor other than pH that will affect enzyme activity.

......[1]

[Total: 1]