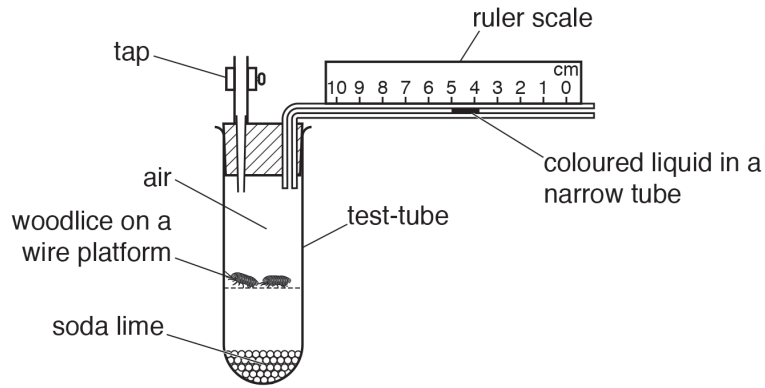


- 4 A student investigated the rate of oxygen uptake during aerobic respiration in woodlice. Woodlice are arthropods.

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

Suggest why it is important that the temperature of the apparatus did not exceed 40 °C.

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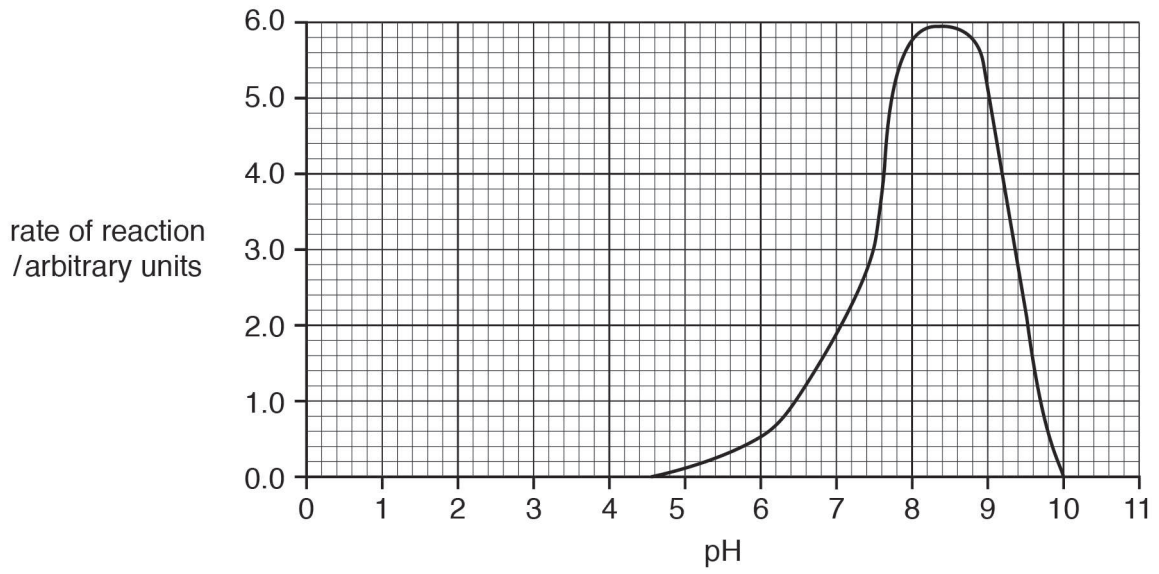
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[2]

[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]