

GCSE Biology A (Gateway)

J247/01 B1-B3 and B7 Foundation (Foundation Tier)

Question Set 7

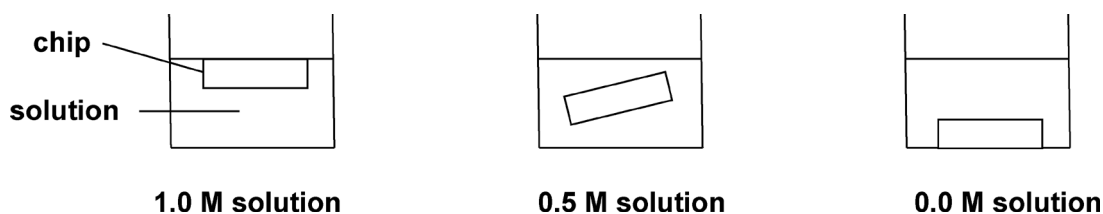
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A student investigates how different concentrations of sucrose solutions affect potatoes.

Three chips are cut from potato.

Each chip is 5.0 cm long.

Each chip is left in a different concentration of sucrose solution for two hours.



These are the results.

Concentration of sucrose solution	Length of potato chip	
	Start (cm)	After two hours (cm)
1.0 M	5.0	4.5
0.5 M	5.0	5.0
0.0 M	5.0	5.5

- (a) What process causes some of the chips to change length in this experiment? [1]
- (b) Explain why the length of the chip increases in the **0.0 M solution**. [2]
- (c) Explain why the length of the chip stays the same in the **0.5 M solution**. [2]

Total Marks for Question Set 7: 5

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