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so many fake sites. this is the first one which worked! Many thanks

a) Draw a graph to show the results of the experiment. [5]

sucrose concentration / 100 cm ³	change in mass / 100 cm ³
0	0.0
5	0.1
10	0.2
15	0.3
20	0.4
25	0.5
30	0.6

b) Which test tube contains the most concentrated sugar solution? Explain your answer. [2]
Test tube A contains the most concentrated sugar solution because the decrease in mass is the greatest.

c) Use the graph to suggest a value for the sugar concentration in the potato cells. [2]
13.6 g / 100 cm³

d) Explain why the potato chip in test tube F has increased in mass. [3]
The water potential of the sugar solution in test tube F is higher than the water potential of the cell sap. Water moves from the region of higher water potential (sugar solution) into the region of lower water potential (potato cells) by osmosis. Hence the increase in mass.

e) Suggest two ways to increase the accuracy and reliability of this experiment. [2]
To increase the accuracy and reliability, firstly, the size of the intervals of sugar concentration could be decreased. Secondly, we can use more than one potato chip for each sugar concentration and calculate the average change in mass.

20 Worksheet 2 for Chapter 3

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