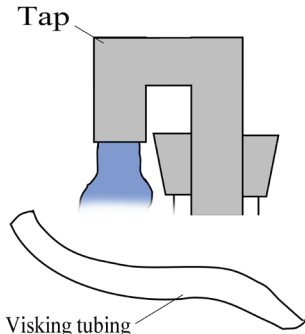


4.9 To conduct any activity to demonstrate osmosis

1

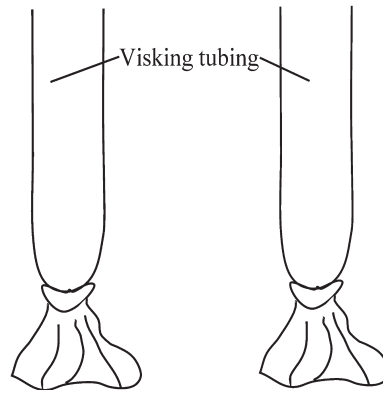


Tap

Visking tubing

Soften the lengths of visking tubing by soaking them in water.

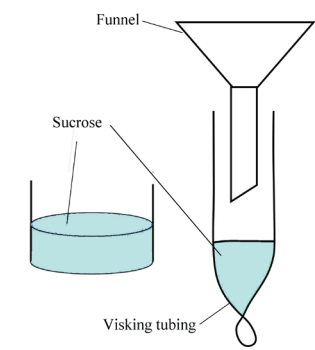
2



Visking tubing

Knot one end of each piece of tubing.

3



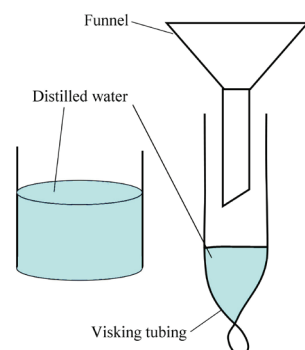
Funnel

Sucrose

Visking tubing

Half fill one piece of visking tubing with sucrose solution.

4



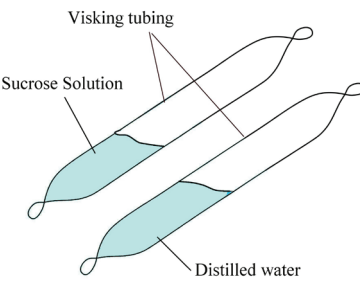
Funnel

Distilled water

Visking tubing

Control: half fill the other piece of visking tubing with distilled water.

5



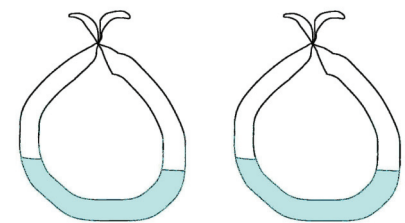
Visking tubing

Sucrose Solution

Distilled water

Eliminate as much air as possible. Knot the open end. Wash and pat dry.

6



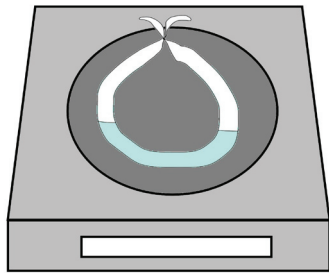
Sucrose

Distilled Water

Tie the two ends of the visking tubing together.

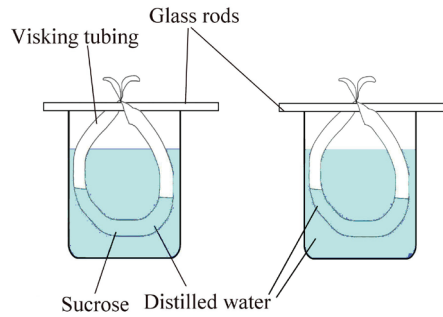
Always remember – Leave time to tidy up *This page can be printed in colour from the accompanying DVD*

7



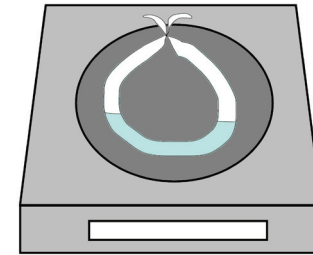
Observe the turgidity and record the mass of each piece of tubing.

8



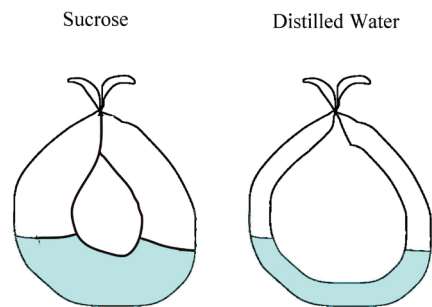
Hang each tube from a glass rod into a beaker of distilled water. Leave for 15 minutes.

9



Remove the tubing, dry and re-weigh. Observe the turgidity.

10



Expected result

Tube contents	Turgidity at start	Turgidity after test period	Mass at start (g)	Mass after test period (g)
Sucrose solution				
Distilled water				

Always remember – Leave time to tidy up

This page can be printed in colour from the accompanying DVD