

Osmosis in potato cells investigation!

Aim:

To demonstrate how osmosis works in plant cells.

Materials:

- 3x test tubes
- test tube rack
- distilled water
- weak sugar solution
- strong sugar solution
- measuring cylinder

Method:

- 1) Place 10 mL of distilled water in one test tube
- 2) Place 10 mL of the weak sugar solution in the second test tube
- 3) Place 10 mL of the strong sugar solution in the third test tube
- 4) Place one potato chip into each test tube
- 5) Wait 30 minutes and record your observations

Observations:

Distilled water –

Weak sugar solution –

Strong sugar solution –

Results:

Which potato increased in size? Do you think it was because it had taken in water?

Which chip got shorter? Do you think it was because it had lost water?

Feel the chip in the distilled water. Why does it feel firm?

Conclusion: