D2.3 Water potential (HL)

What the Cell · DP Biology · note-taking sheet · HL statements D2.3.8–11

Name _____ **Date** _____

How to use this sheet: go through the slides and videos with it, then close them and write from memory. Use your own words and add page numbers from the book (pp. 690–692) where you want more detail.

Guiding questions. What affects whether water moves into or out of a cell? In what ways do plant cells and animal cells control water movement differently?

D2.3.8–9 Water potential and the direction of movement

Definition, unit, the value for pure water, and why solutes make it negative. Which way does water move?

D2.3.10–11 Solute and pressure potential

Write the equation. Fill in the table.

	Solute potential	Pressure potential	Water potential
Cell in a hypotonic solution			
Cell in a hypertonic solution			

How to estimate the water potential of potato tissue:

Before you finish

Tick the ones you can explain without notes. Circle anything to ask about.

- ☐ Water potential
- ☐ Pure water = 0
- ☐ Direction of movement
- ☐ Solute potential
- ☐ Pressure potential
- ☐ Turgid and flaccid
- ☐ Plasmolysis
- ☐ Potato practical