

REVISION SUMMARY

NO: CHAP 8 → TRANSPORT IN PLANTS ••• DATE:

- Water obtained by plants from the solution. The water enters by the process of OSMOSIS, via special structures on the outside of the root called ROOT HAIRS. These structures increase the SURFACE AREA of the root and, as well as absorbing water, they can also take up IONS such as NITRATE, which is required for the synthesis of chlorophyll. These substances are absorbed both by DIFFUSION and by ACTIVE TRANSPORT, a process that requires the supply of energy.
- Plant cells rely on water for SUPPORT, as a SOLVENT and as a raw material for PHOTOSYNTHESIS. Water is used as a transport media for both ions and sugars. The ions are transported, along with water, to the XYLEM tissue. Sugars are transported through living cells of the PHLOEM and these specialized tissues are grouped together into VASCULAR BUNDLES.

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