

Xylem

- carries water from the root, up the stem and to all parts of the plant

Transpiration

- the evaporation of water at the surfaces of the spongy mesophyll, followed by loss of water vapour
- affected by amount of water and damaged roots
- investigated by a potometer (indirectly)

Phloem

- carries sucrose from the photosynthetic areas to other parts of the plant for use in respiration or to be converted into starch for storage

Plant nutrient deficiencies

- nitrate deficiency: poor growth
- phosphate deficiency: poor root growth
- potassium deficiency: yellowing of the leaf

NPK fertilisers

- increase crop yield by making crops grow bigger and faster
- cause eutrophication

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