

8 Xylem and phloem – Part 1 —Answers

Answers

Work through these after trying the questions yourself.

8.1 Water and mineral ions, upwards (from the roots towards the leaves).

8.2 Sucrose and amino acids.

8.3 To support the plant (and to keep the tubes open).

8.4 Root hair cells.

8.5 They give a very large surface area.

8.6 Any two: its cells are **dead and hollow** (no contents to block the water); the end walls have broken down to make a **continuous tube**; and the walls are strengthened with **lignin**, which keeps the tube open and supports the plant.