

Xylem and phloem

**What is the function of xylem?**

Xylem and phloem

**What is the function of phloem?**

Xylem and phloem **Supplement**

**Why is lignin in xylem walls?**

Xylem and phloem **Supplement**

**How do xylem vessels form a continuous tube?**

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**Where are xylem and phloem in a non-woody dicot stem?**

Xylem and phloem

**Where is xylem in a root cross-section?**

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**Where are xylem and phloem in a leaf?**

Transports sucrose and amino acids.

Transports water and mineral ions, and supports the plant.

Cells are joined end to end with no cross walls and have no cell contents.

It strengthens the thick walls, so the vessel does not collapse and the plant is supported.

In the centre, often an X shape, with phloem between the arms.

In vascular bundles in a ring near the outside. Xylem is on the inside, phloem on the outside.

In the veins. Xylem is on the upper side, phloem on the lower side.