



The vascular bundles in a stem are arranged in a ring. Each vascular bundle consists of primary xylem, secondary xylem, vascular cambium, secondary phloem, and primary phloem. The vascular cambium is a layer of cells that produces secondary xylem and secondary phloem. The secondary xylem is the inner part of the xylem, and the secondary phloem is the outer part of the phloem. The primary xylem is the outer part of the xylem, and the primary phloem is the inner part of the phloem.

Diagram illustrating the structure of a vascular bundle in a stem, showing the arrangement of xylem and phloem.

FACTFILE



Part	Function
Primary xylem	Transport water and minerals from roots to leaves
Secondary xylem	Transport water and minerals from roots to leaves
Vascular cambium	Produce secondary xylem and secondary phloem
Secondary phloem	Transport organic nutrients from leaves to other parts of the plant
Primary phloem	Transport organic nutrients from leaves to other parts of the plant

Diagram illustrating the growth of a stem, showing the formation of secondary xylem and secondary phloem.