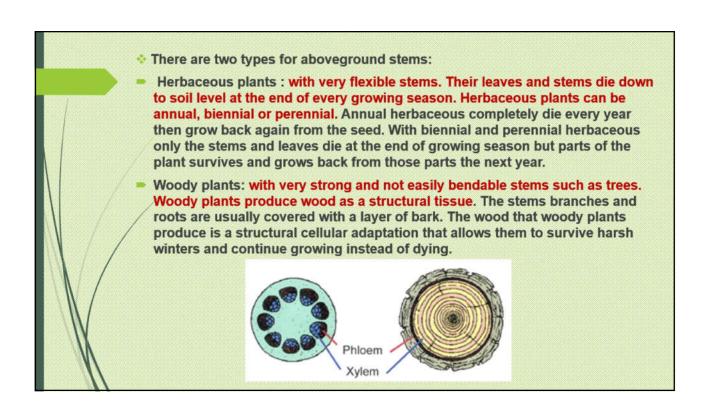
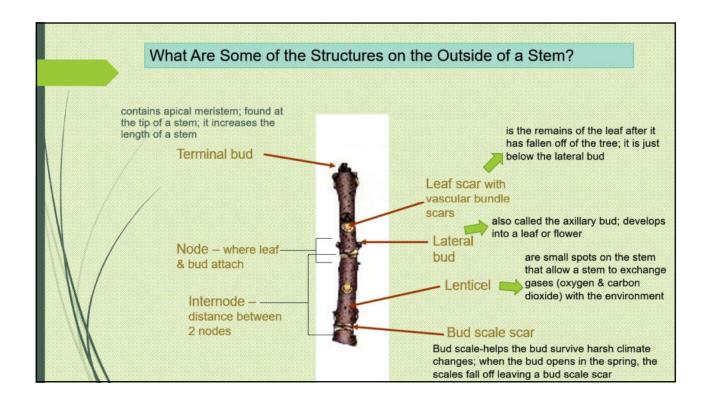


Primary stem structure Stem is the plant axis that bears buds and shoots with leaves and, at its basal end, roots. The stem is the stalk of a plant or the main trunk of a tree. . This organ is responsible for the forming the aboveground structure of the plant, and is involved in both structural support and vascular transport. . Inferior plants such as «Algae, lichens and Vascular system fungi» in fact, do not possess true roots, stems, leaves and other specialised organs Primary root that characterise the "superior" plants The shoot apical meristem and the primary meristems lie at the apex of the shoot and give rise to the primary tissues of the stem. The shoot apical meristem produces leaves and axillary buds exogenously; as a result, the epidermis of stems and leaves is continuous.





Stems are responsible for the following functions:

- 1. Stems support the leaves
 - Able to stretch the leaves into the best positions for catching sunlight
- 2. Move water, minerals and food through the whole plant
- 3. Can also produce food through photosynthesis
 - Not its main job, but will occur in plants with small or no leaves
- 4. Store food that has been manufactured by the plant

In the stems of young dicotyledons and gymnosperms, the vascular bundles (xylem and phloem) are arranged in a circle around a central core of spongy ground tissue called the pith. Surrounding the vascular bundles is a layer that varies in thickness in different species and is called the cortex. Surrounding this and comprising the exterior surface of the stem is a layer called the epidermis. | Pilo | Pith | Epidermis | Cortex | Cor

