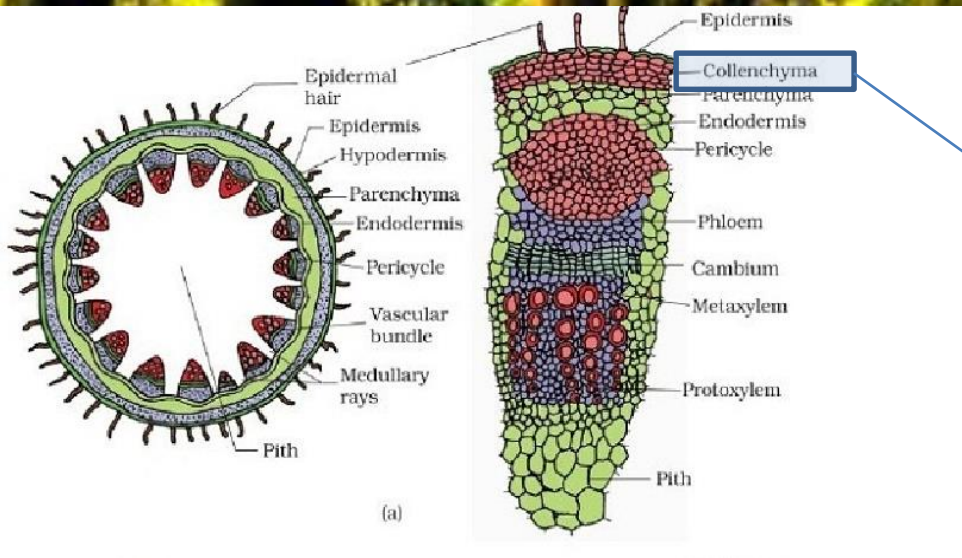


# The Plant Anatomy of a Dicot Stem

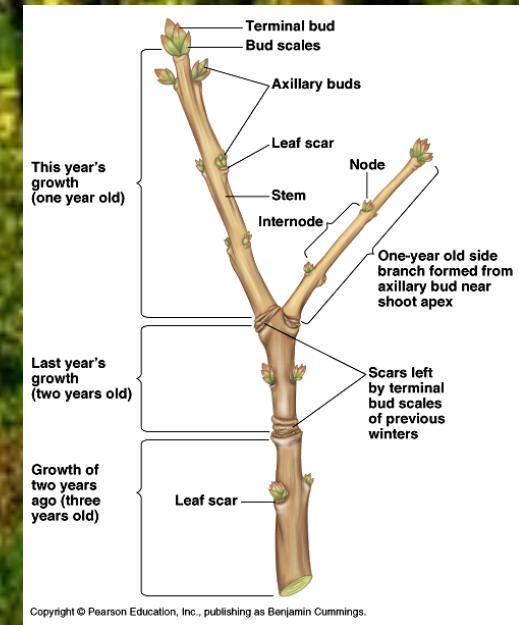
## Internal Diagram of Stem:



## Cell Diagram:



## External Diagram of Stem:



## Ecological and Economical Uses:

**Stems:** We eat certain stems to obtain nutrients. Stems produce wood which provides products for the lumber industry and protection for plants to maximize growth.

**Ground Tissue:** Provides storage of nutrients and structural support in plants. Allows for plants to grow more successfully and store nutrients which are important in the agricultural and health industries.

**Collenchyma:** Support surrounding tissues for successful plant growth. These elongated cells provide flexibility for plant growth which helps for the overall health of plants.

## Resources:

### Research From:

Reece, J. B., & Campbell, N. A. (2011). *Campbell biology*. Boston: Benjamin Cummings / Pearson.

### Diagrams From:

Website: Pearson.edu (Ed). 2010. The Stem Overview. <http://www.bio.miami.edu/dana/dox/stem.html>

Website: Kshitiji Education India (Ed). 2011. Anatomy of Dicot and Monocot Plants. <http://www.kshitij-pmt.com/Biology/Anatomy-of-flowering-plants/anatomy-of-dicotyledonous-and-monocotyledonous-plants.aspx>

Website: Siyuvula Technology Learning. 2011. Plant Tissues. South Africa: Capetown. <https://www.everythingmaths.co.za/science/lifesciences/grade-10/04-plant-and-animal-tissues/04-plant-and-animal-tissues-03.cnxmlplus>