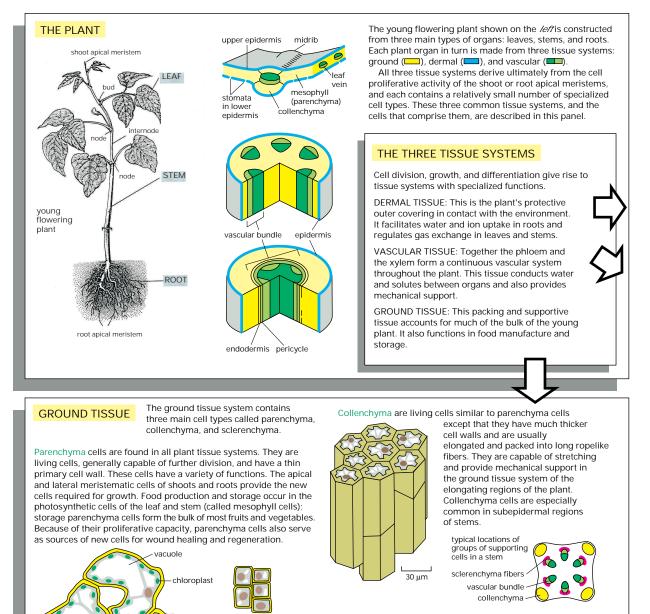
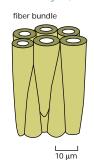




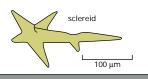
## Plant Cells and Tissues, Part 1



Sclerenchyma, like collenchyma, have strengthening and



supporting functions. However, they are usually dead cells with thick, lignified secondary cell walls that prevent them from stretching as the plant grows. Two common types are fibers, which often form long bundles, and sclereids, which are shorter branched cells found in seed coats and fruit.



A transfer cell, a specialized form of parenchyma cell, is readily identified by elaborate ingrowths of the primary cell wall. The increase in the area of the plasma membrane beneath these walls facilitates the rapid transport of solutes to and from cells of the vascular system.

50 µm

nucleus

leaf mesophyll

xylem

vessel

transfer cell

cells

root meristem cells