



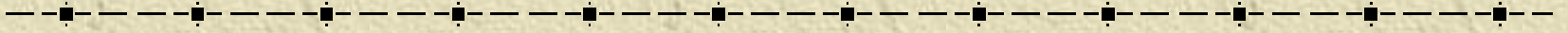
Stems

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Introduction to Horticulture

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Stems



Growth of stems increase plant

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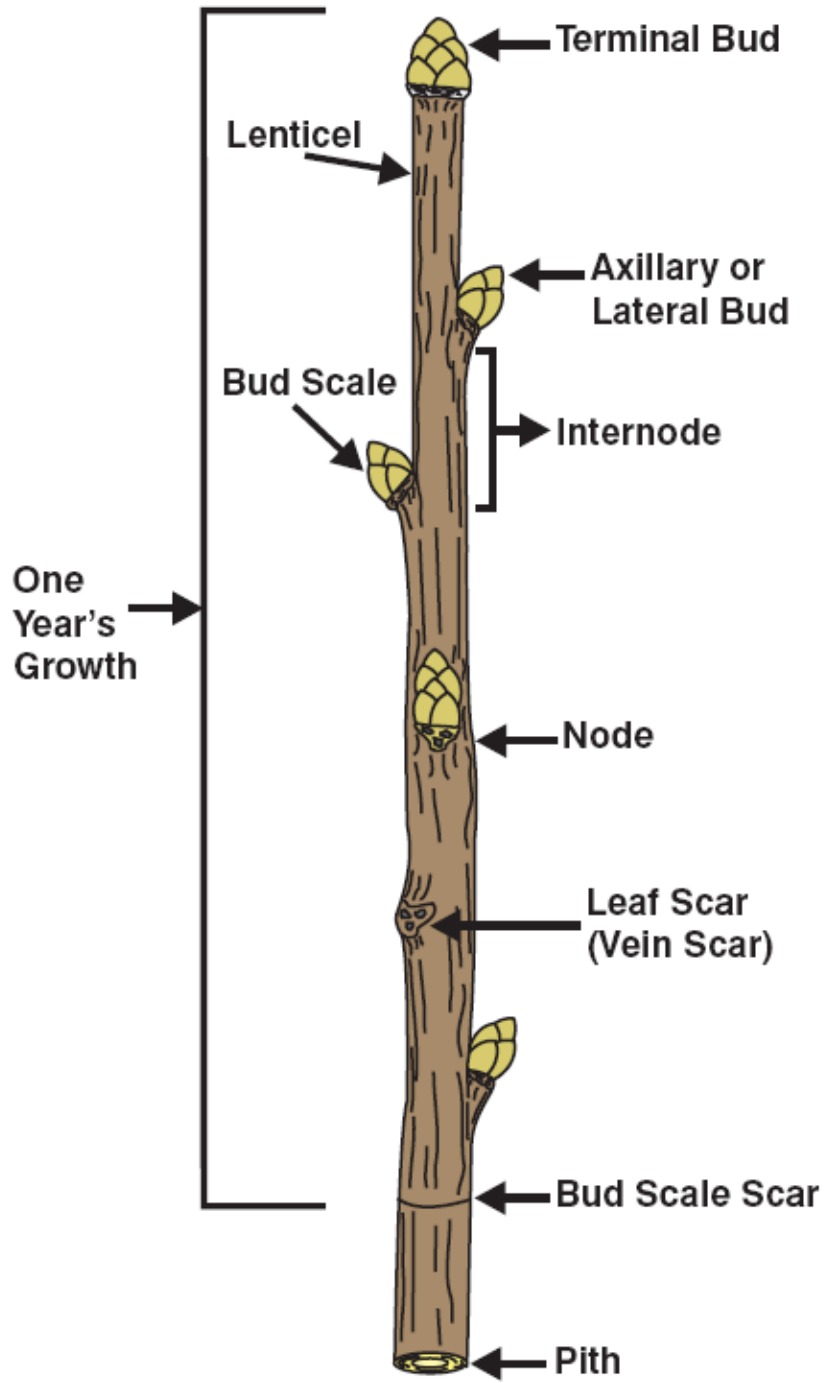
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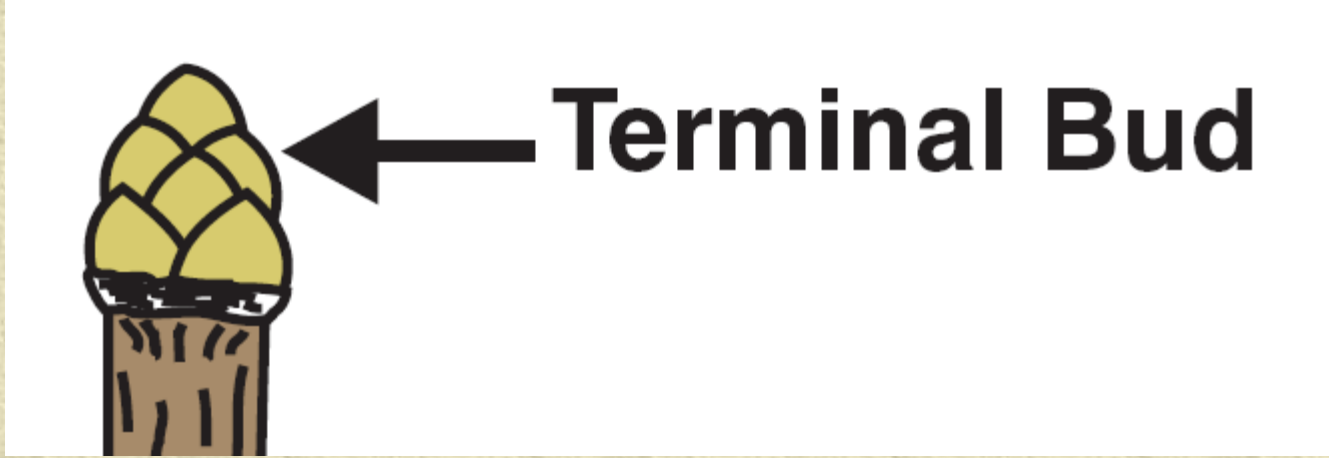
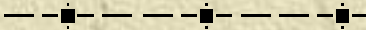
AND

WIDTH

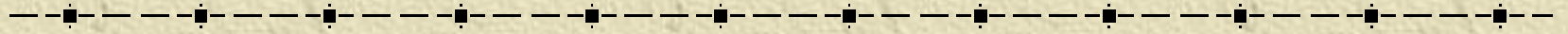
Stem Functions

1. Conducts water and minerals from soil to leaves
2. Conducts manufactured food from leaves to other plant parts
3. Produces leaves and displays them to light
4. Supports leaves, flowers and fruit
5. Stores food reserves in some plants—potato, asparagus, cabbage hearts, etc.





Inside the Stem

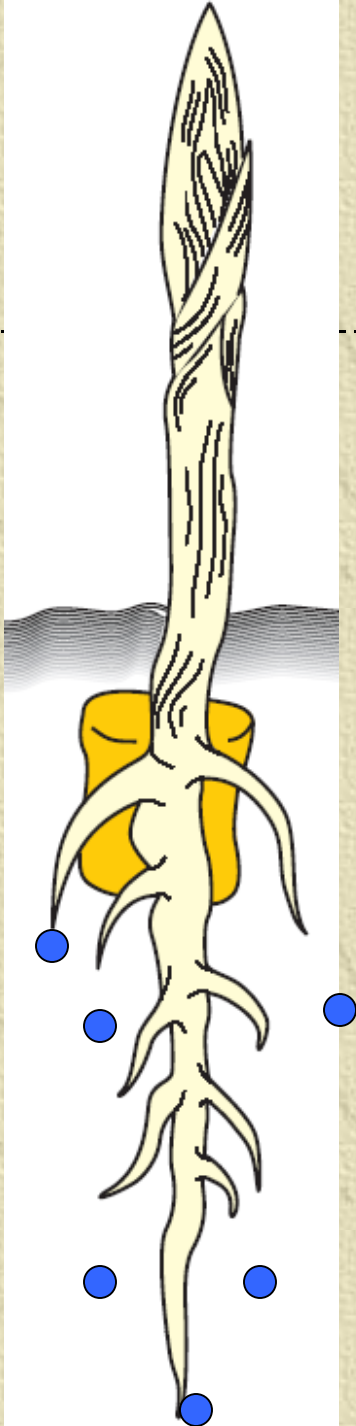


Xylem

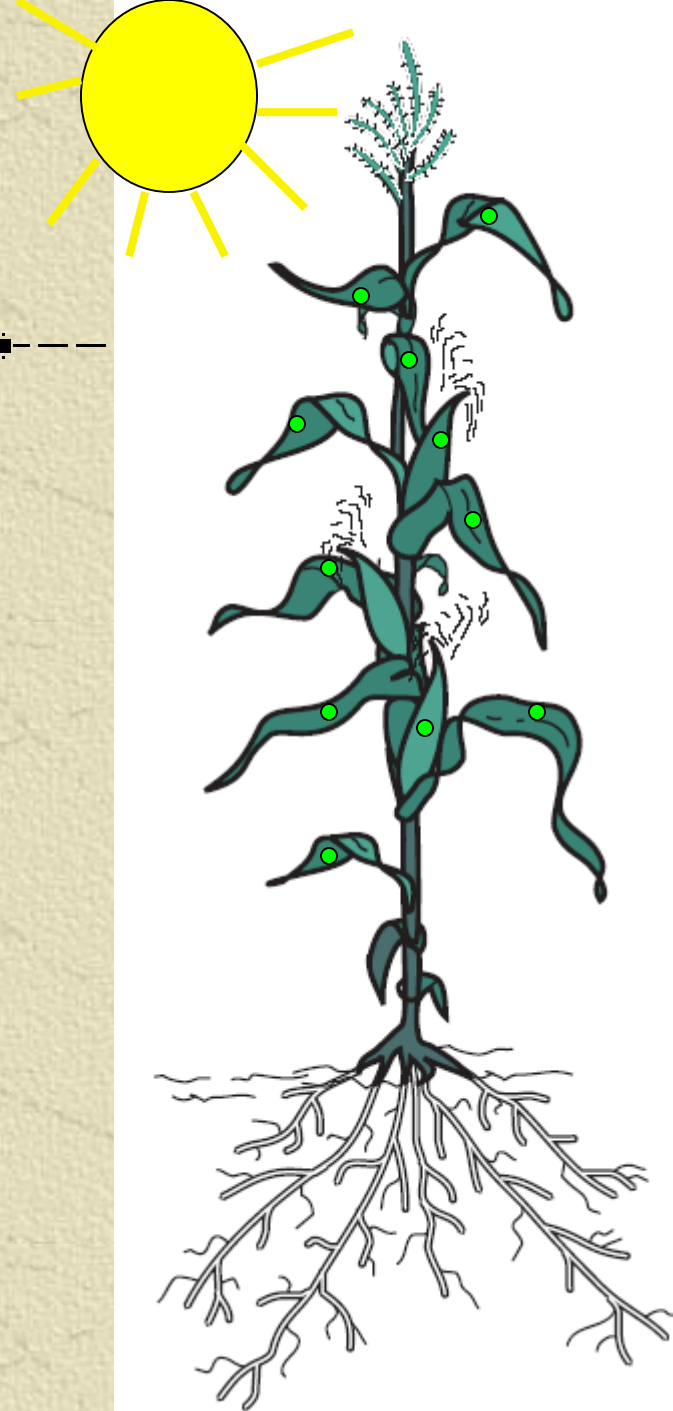
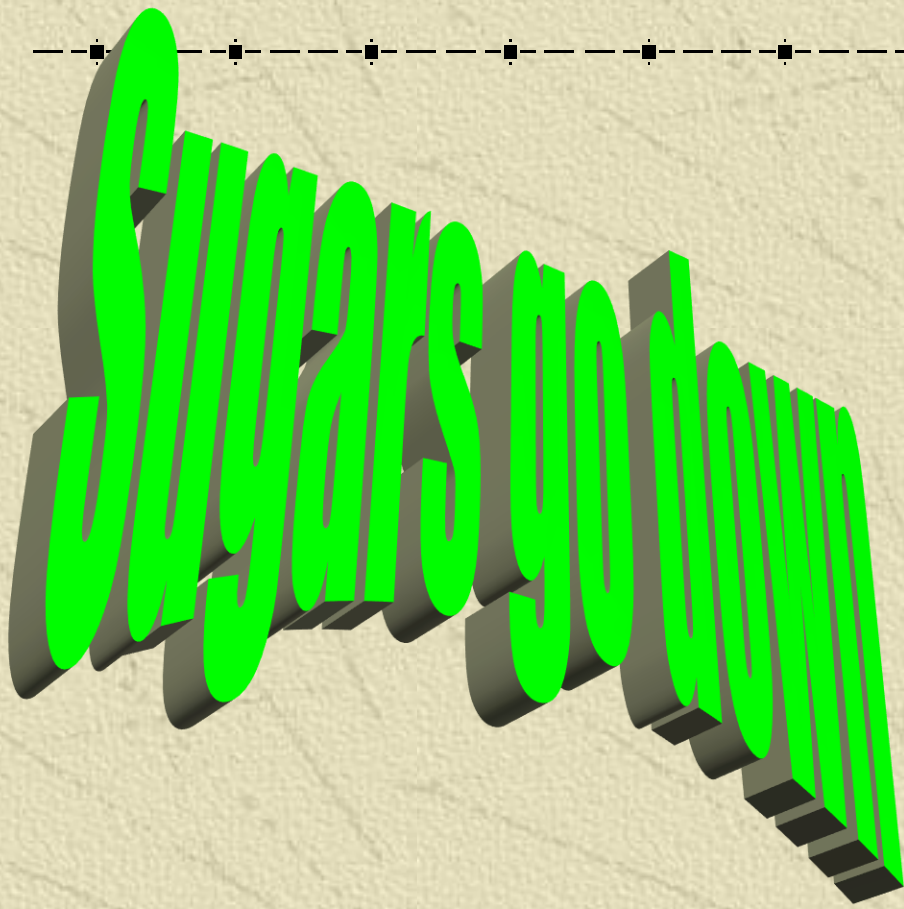
Phloem

XYLEM

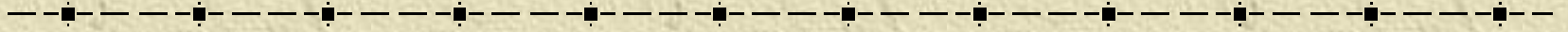
Water goes up



Phloem



Examples of Stems

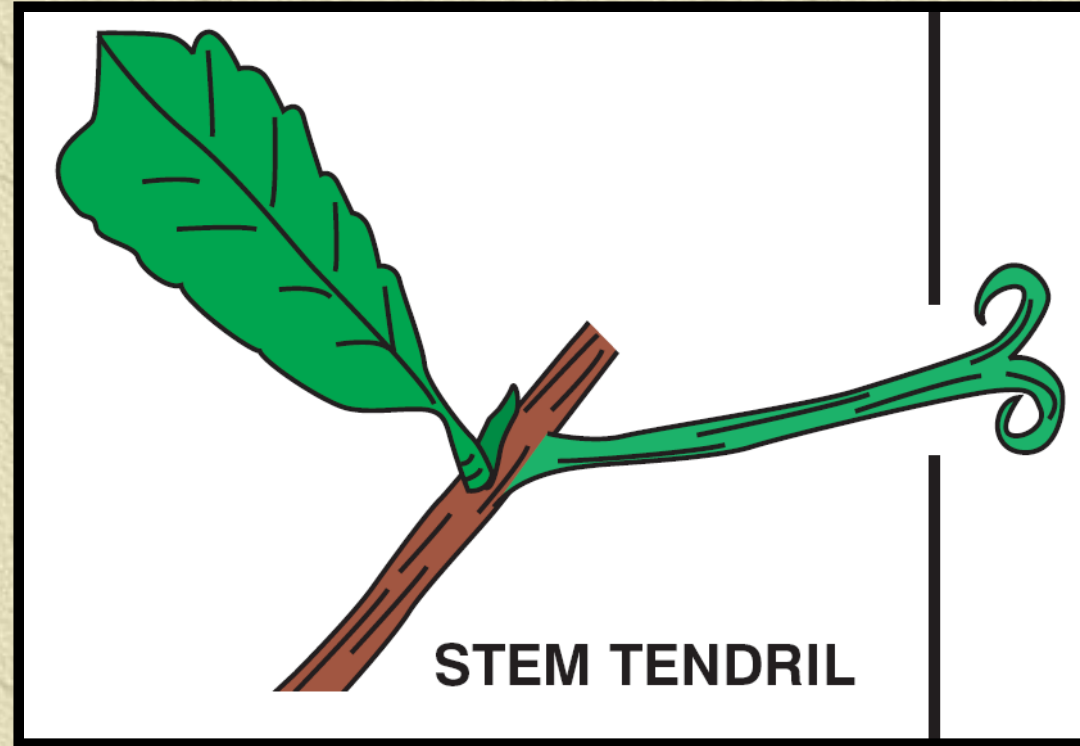


Tendrils

Is a threadlike leafless growth on a stem that attaches itself around other stems and objects.

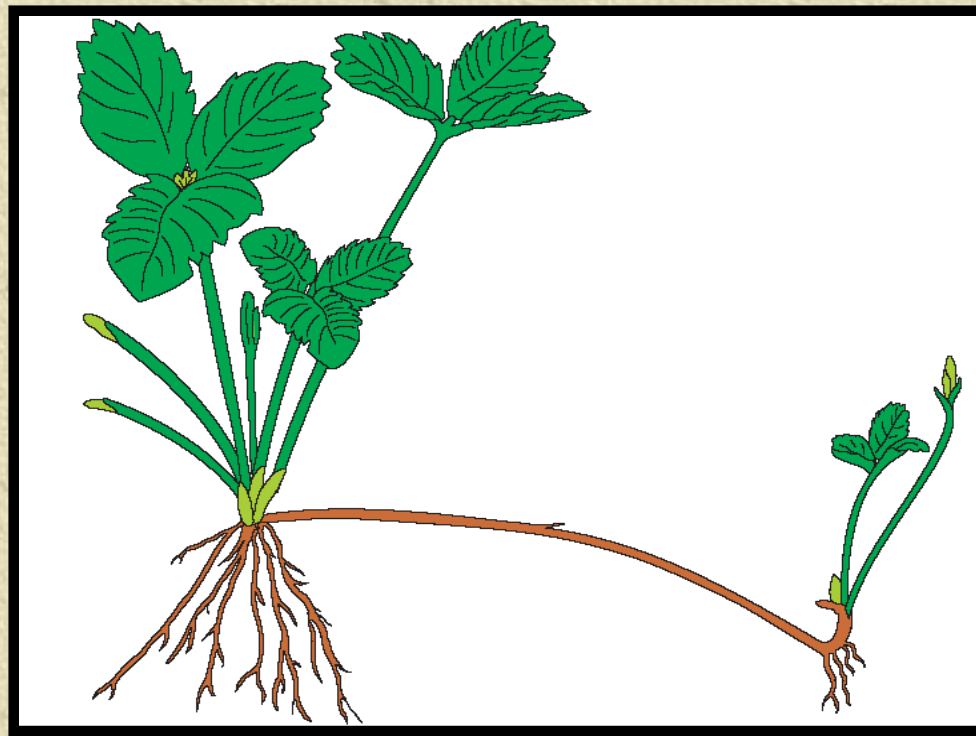
Tendrils typically grow in a spiral shape. After attaching itself, it holds the stem in position.

Vines and climbing plants often have tendrils. -examples include sweet peas and cucumbers.

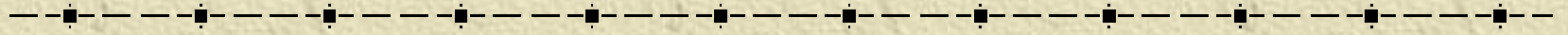


Stolon

Is an above ground stem that grows horizontally and propagates new plants. - examples include strawberries



Modified Stems

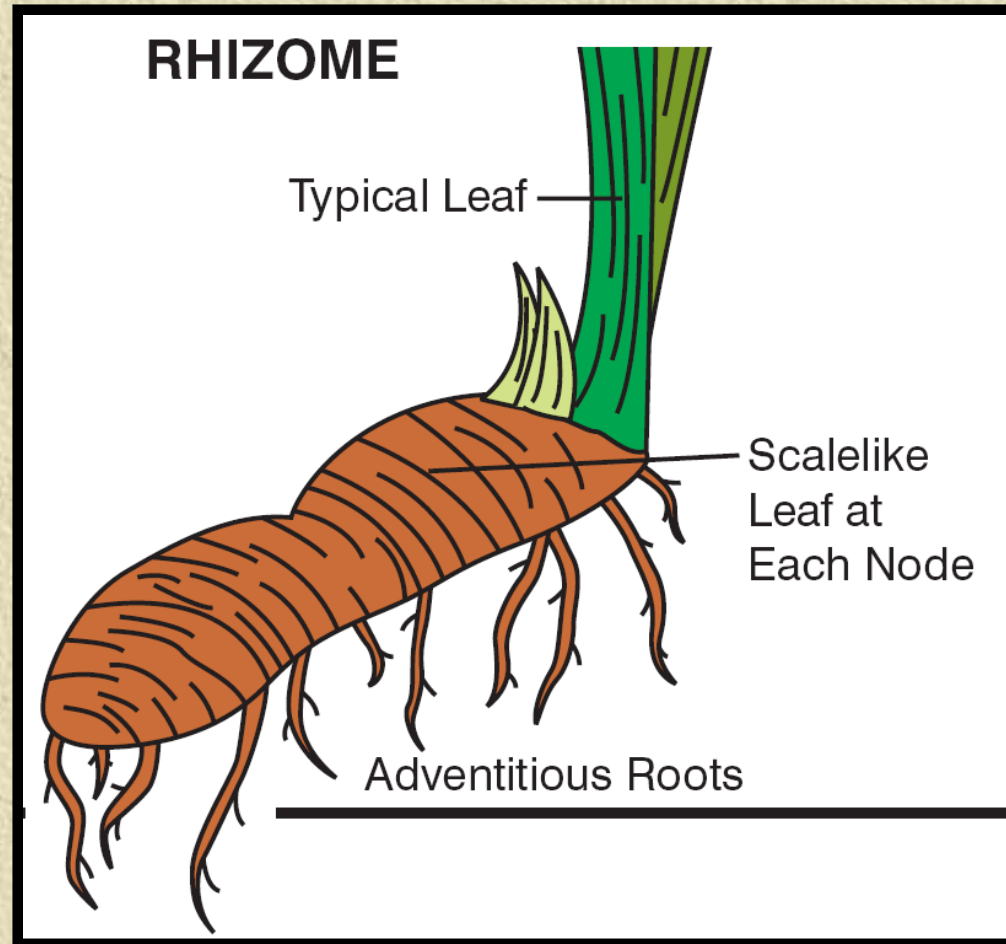


Not all stems grow above ground

Rhizome

An underground stem that grows horizontally.

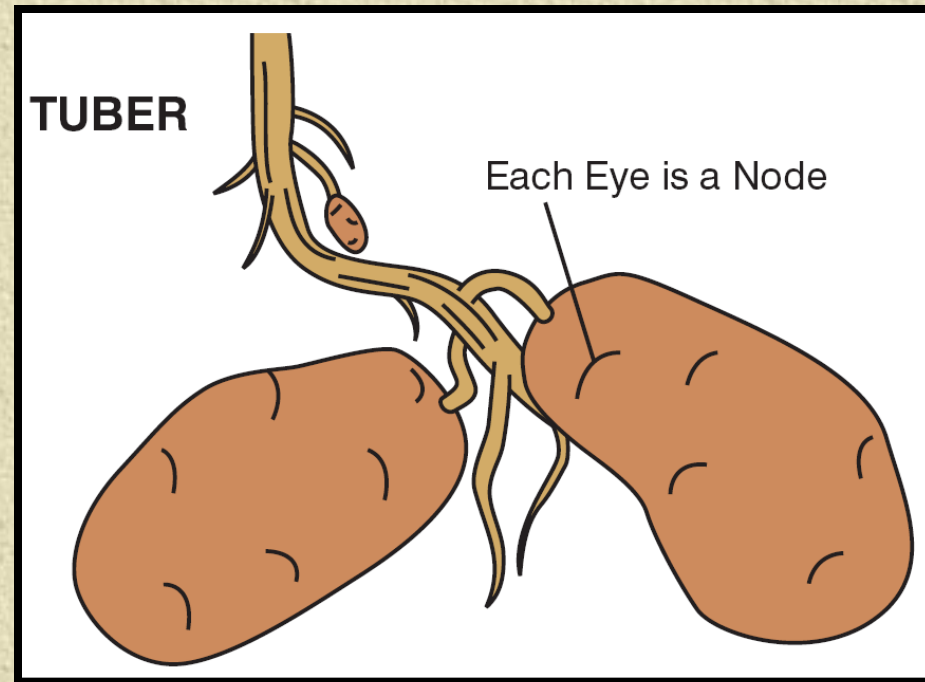
It may grow adventitious roots and stems to develop as a separate plant. - examples include iris and wild ginger.



Tuber

Is an enlarged part of a stem that grows underground.

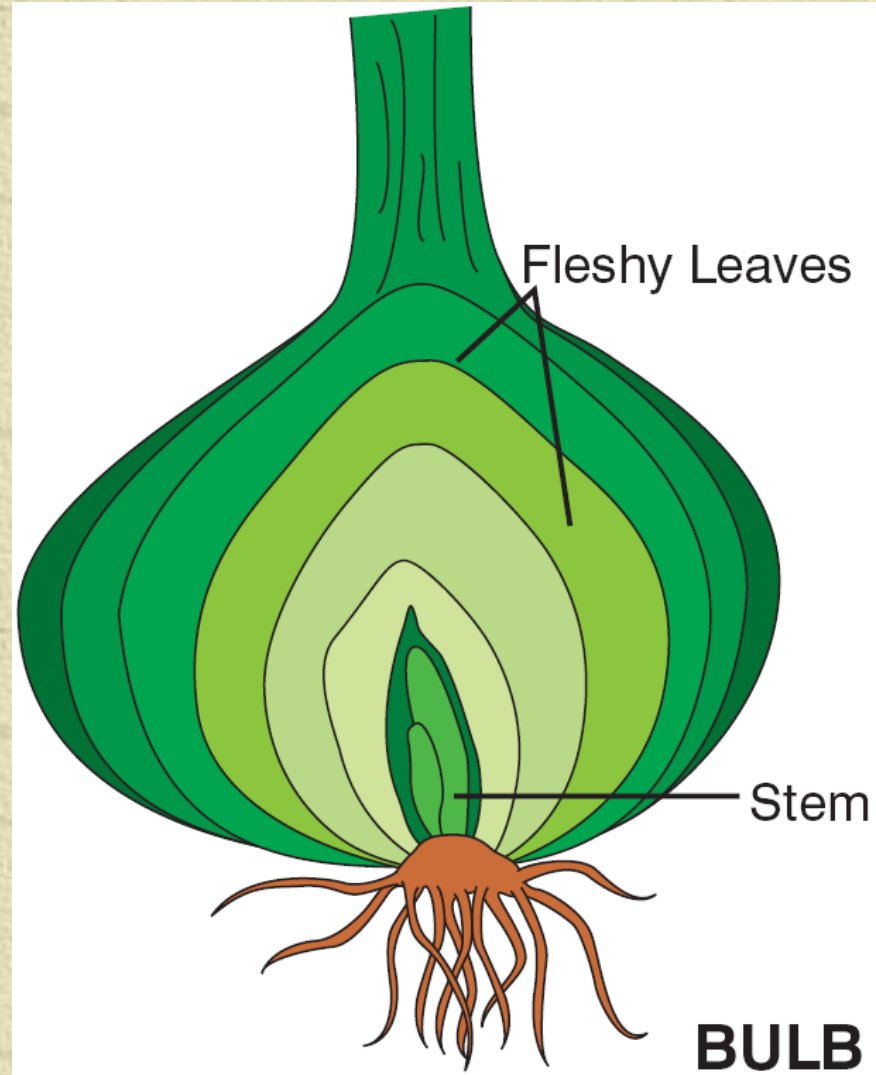
A tuber can develop into a separate plant. -examples include potatoes and yams.



Bulb

Is an underground food-storage organ consisting of flattened, fleshy stem-like leaves with roots on the lower side.

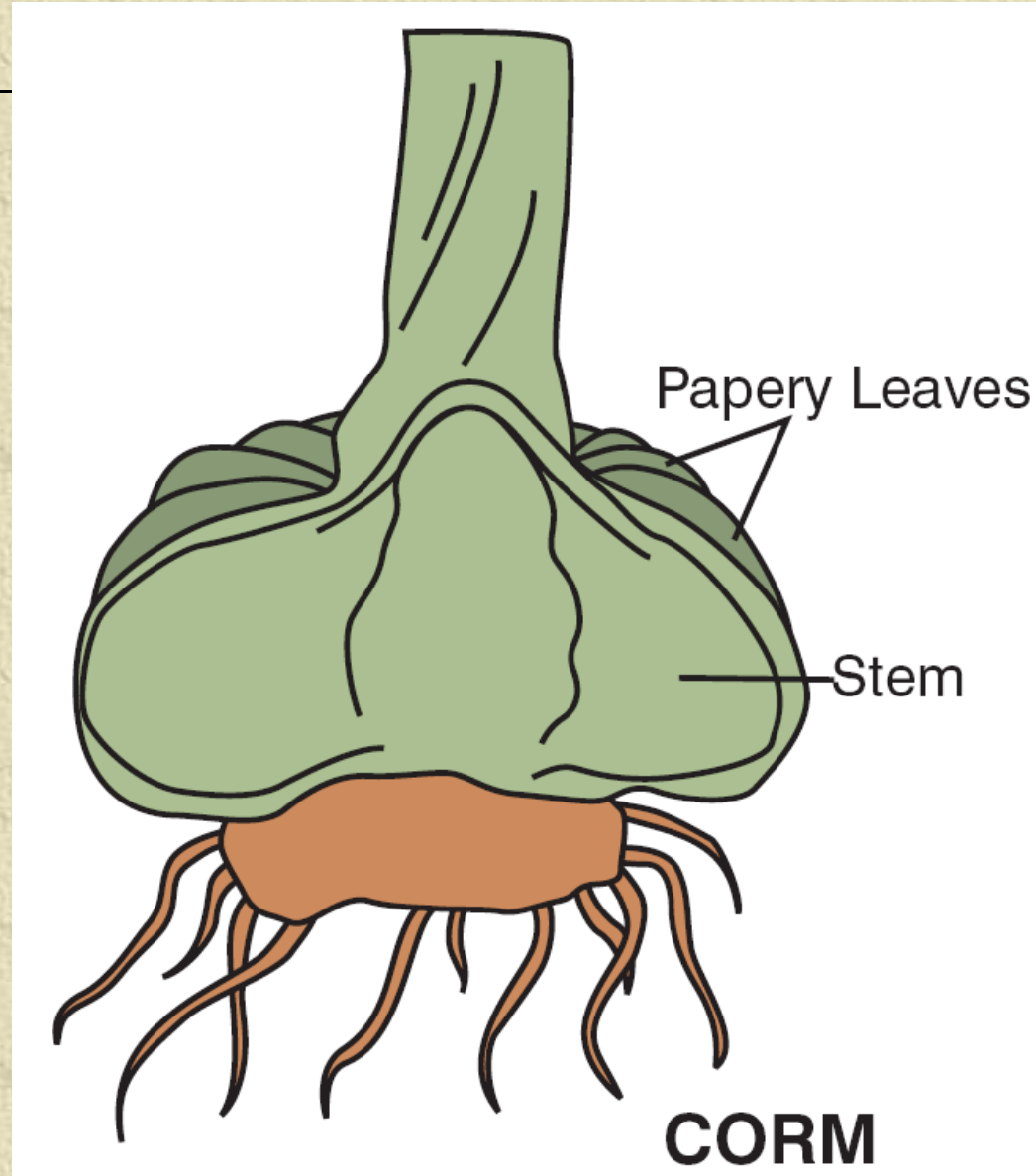
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examples of bulbs are onions



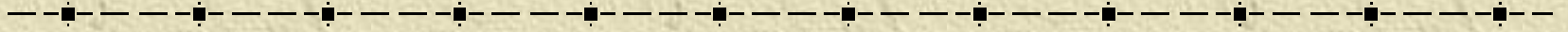
Corm

Is a food storage structure at the end of a stem that grows underground.

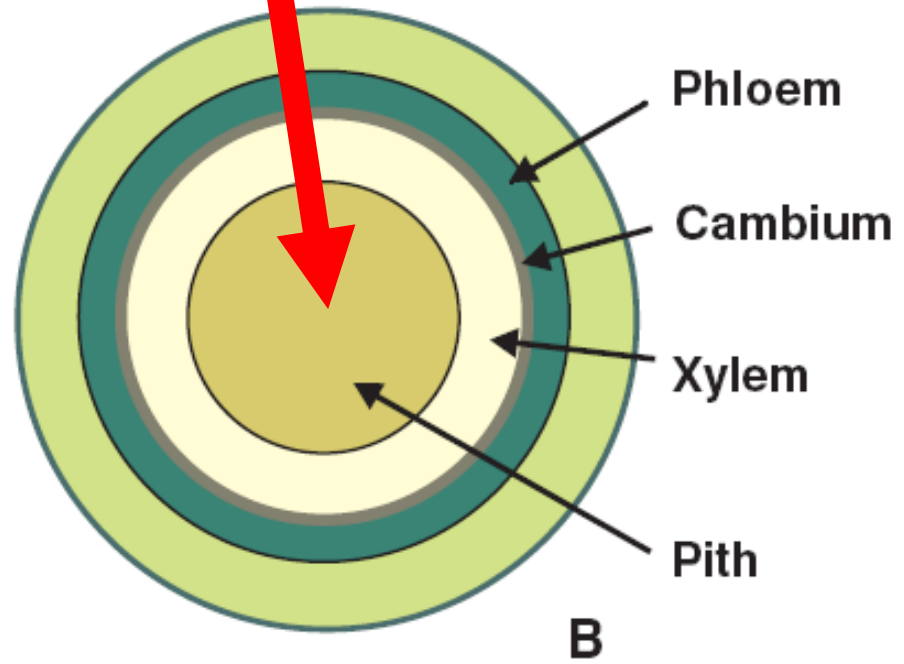
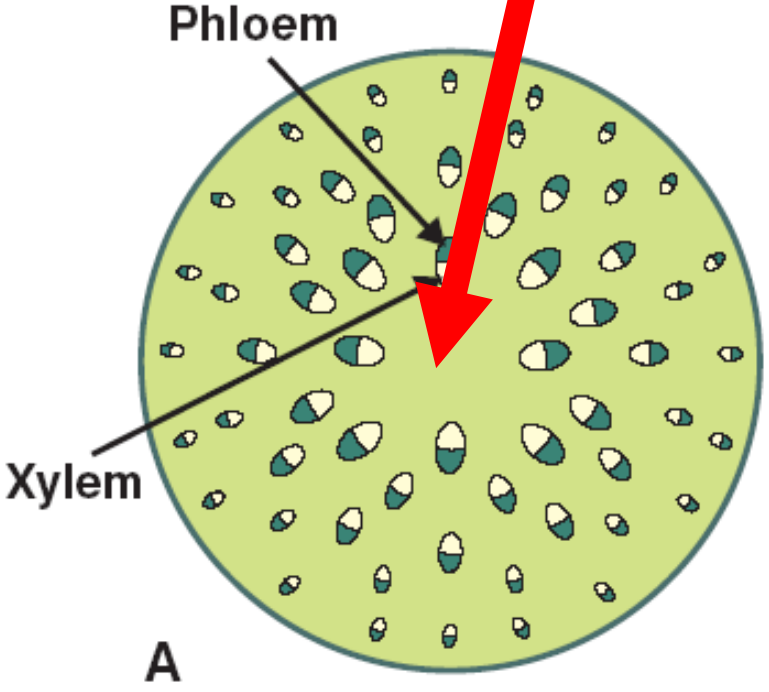
It is an enlarged or swollen stem base. - examples include gladiolus and crocus.



Review

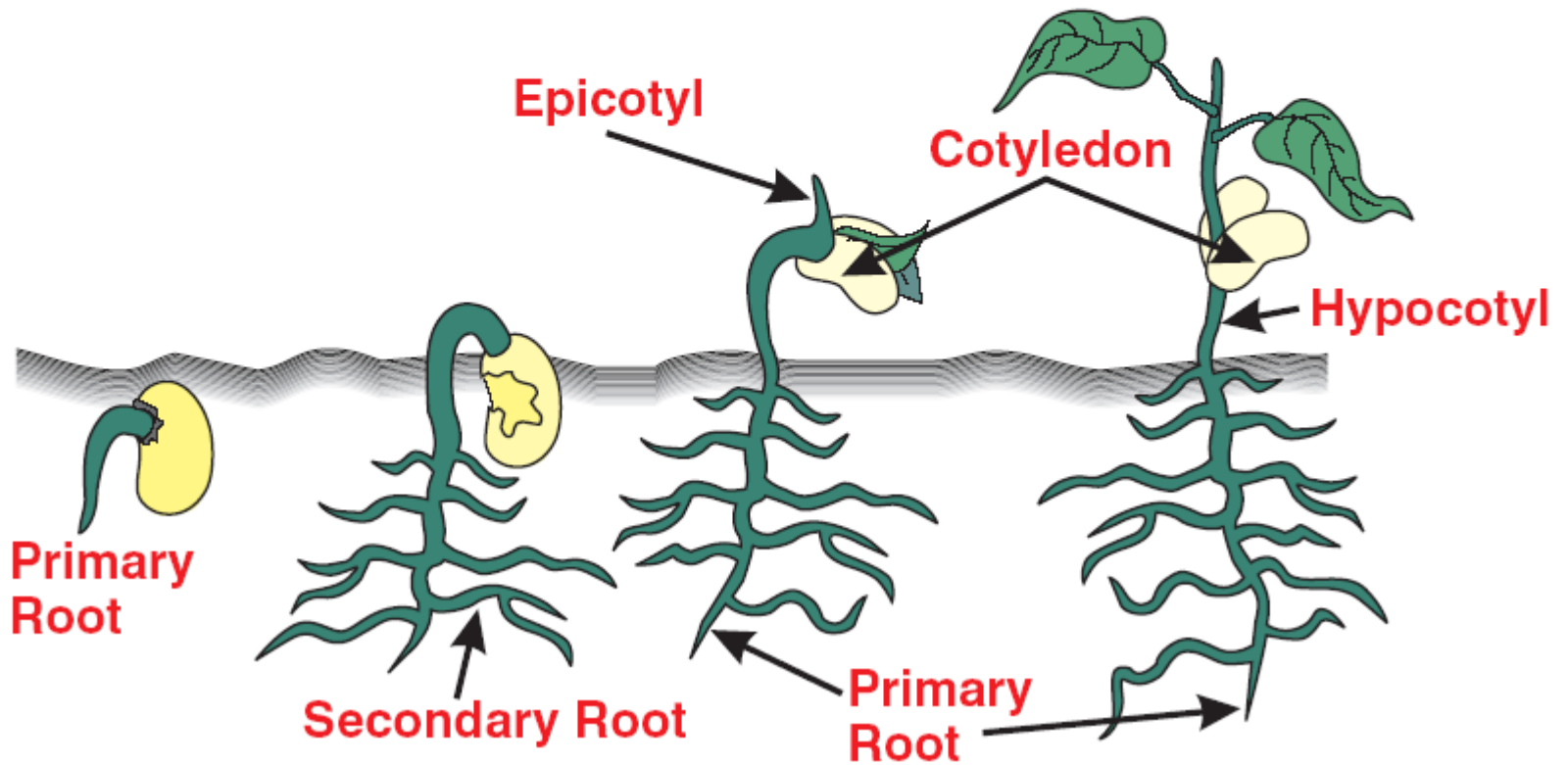


Monocot vs. Dicot



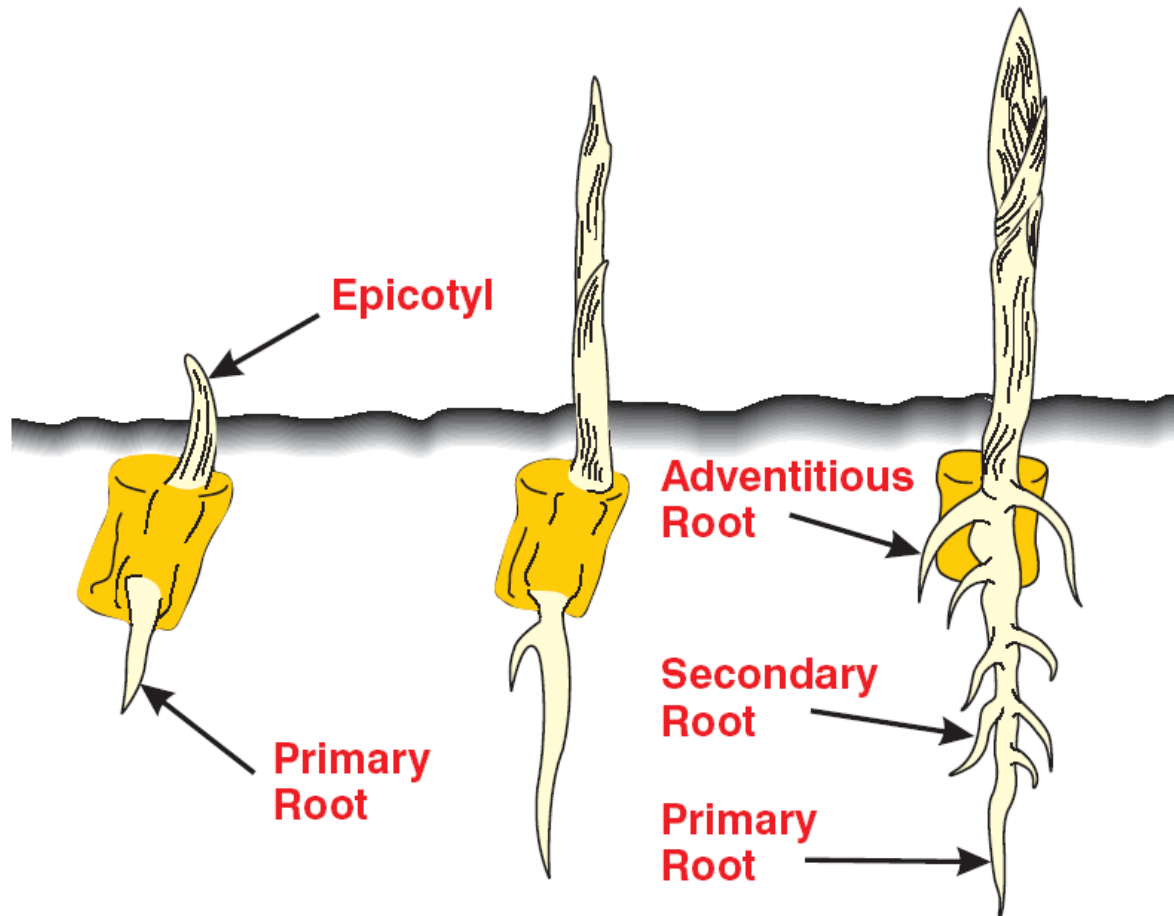
Monocot vs Dicot

BEAN

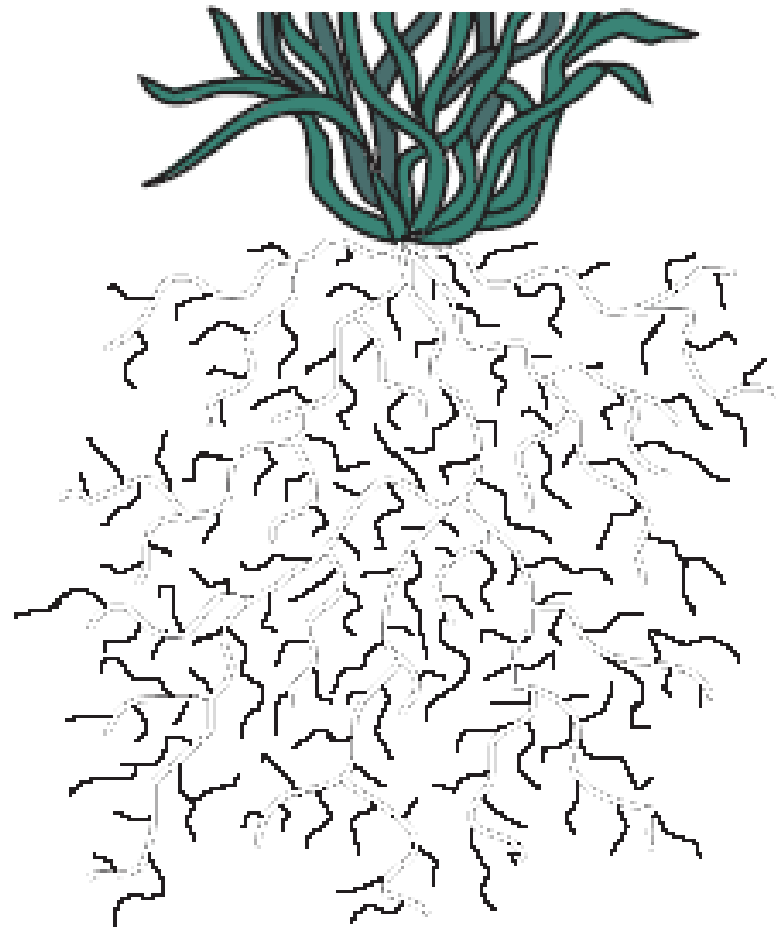


Monocot vs. Dicot

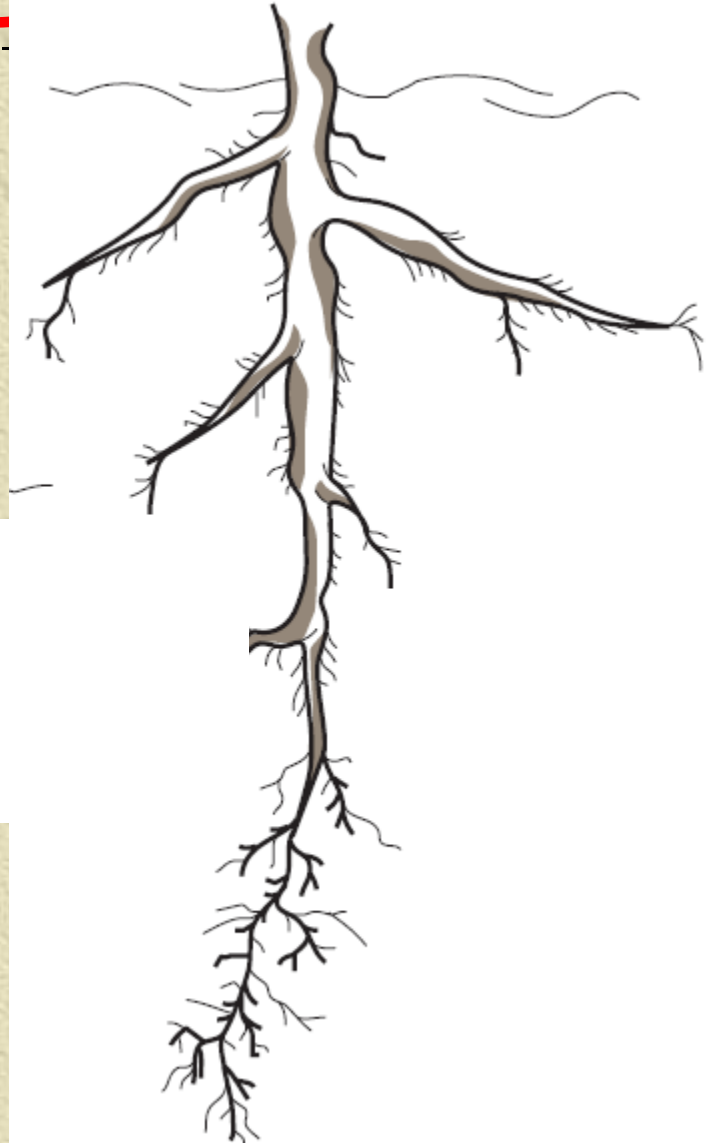
CORN



Taproot or Fibrous root



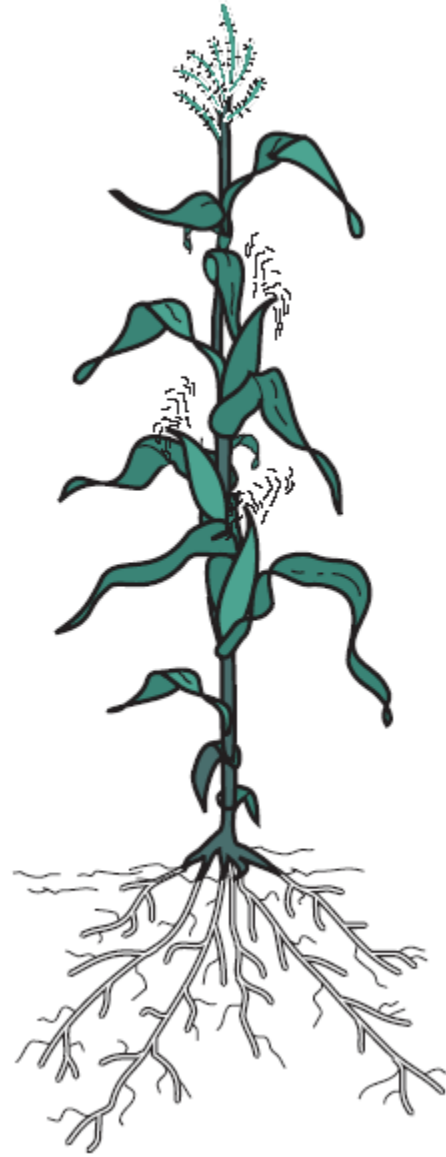
Taproot or Fibrous root?



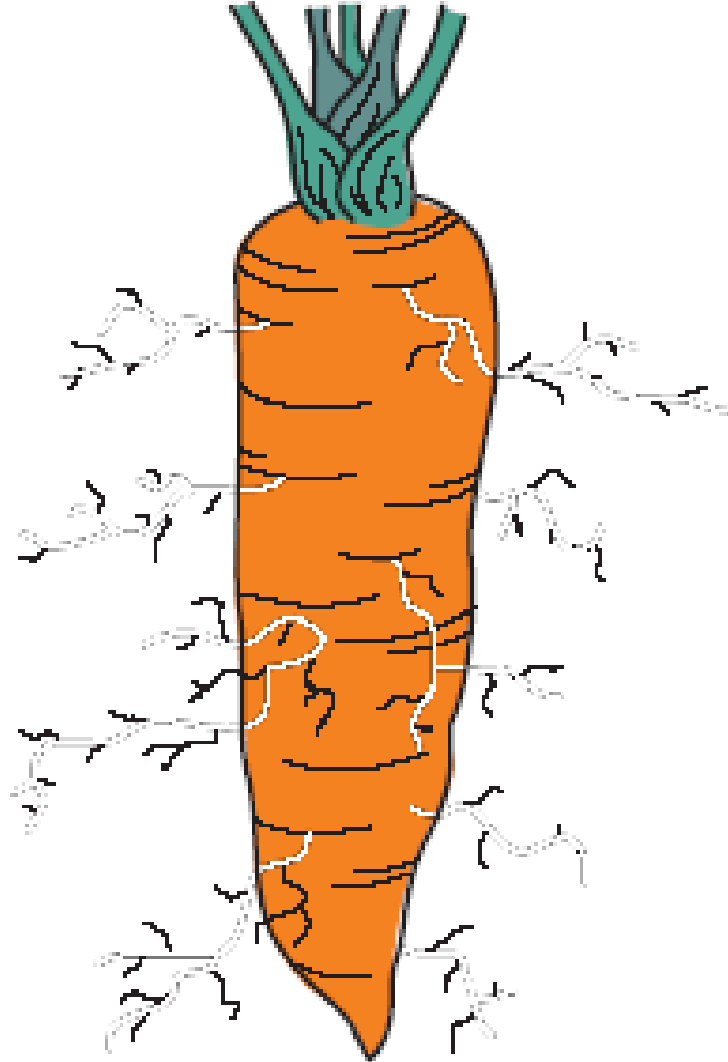
Taproot or Fibrous root?



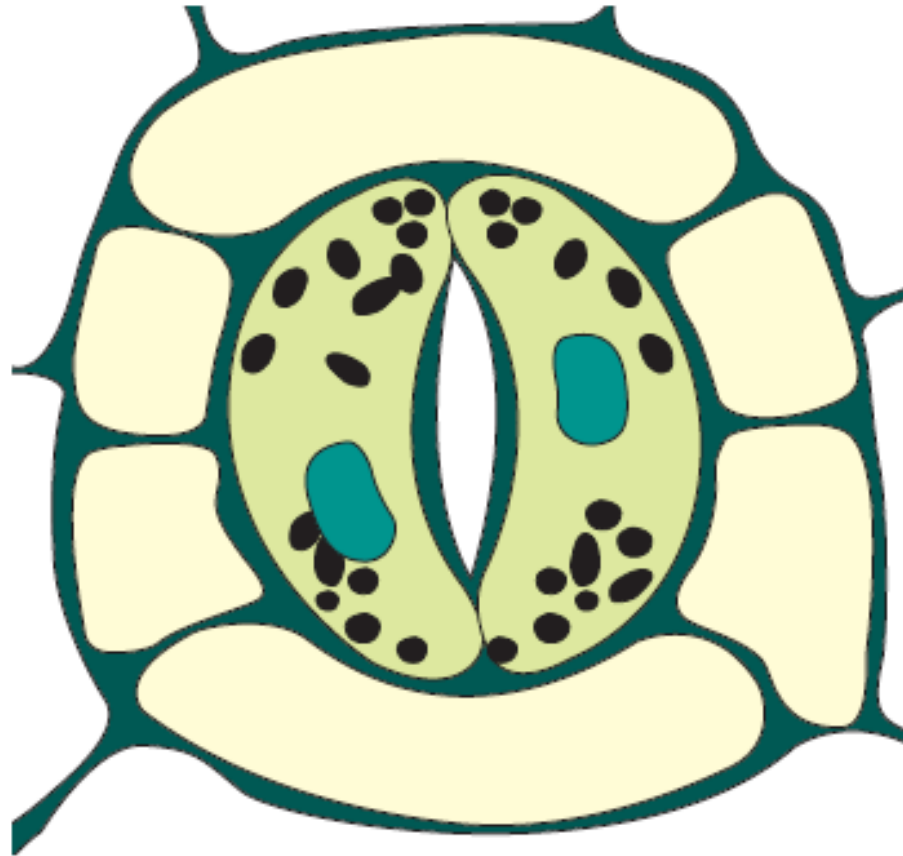
Taproot or Fibrous root?



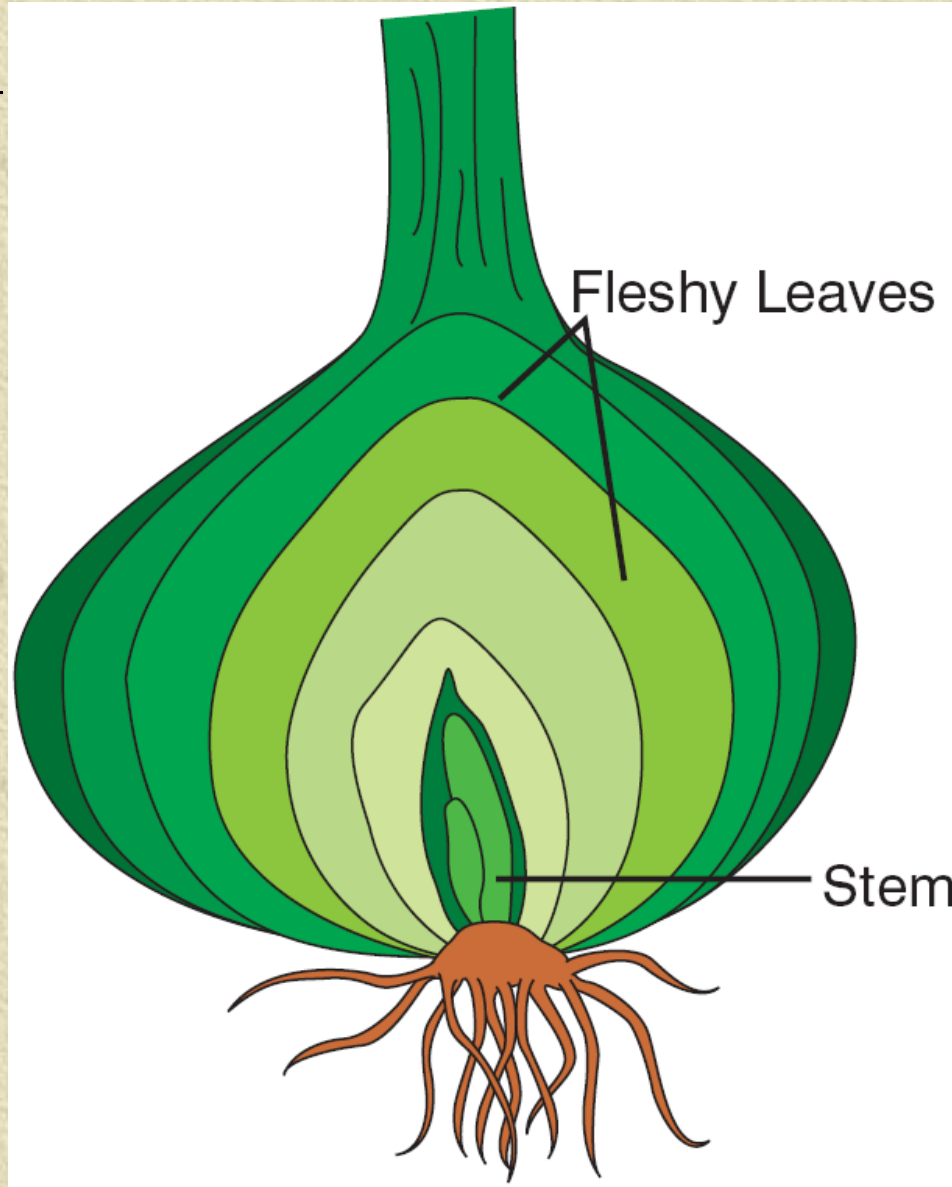
Taproot or Fibrous root?



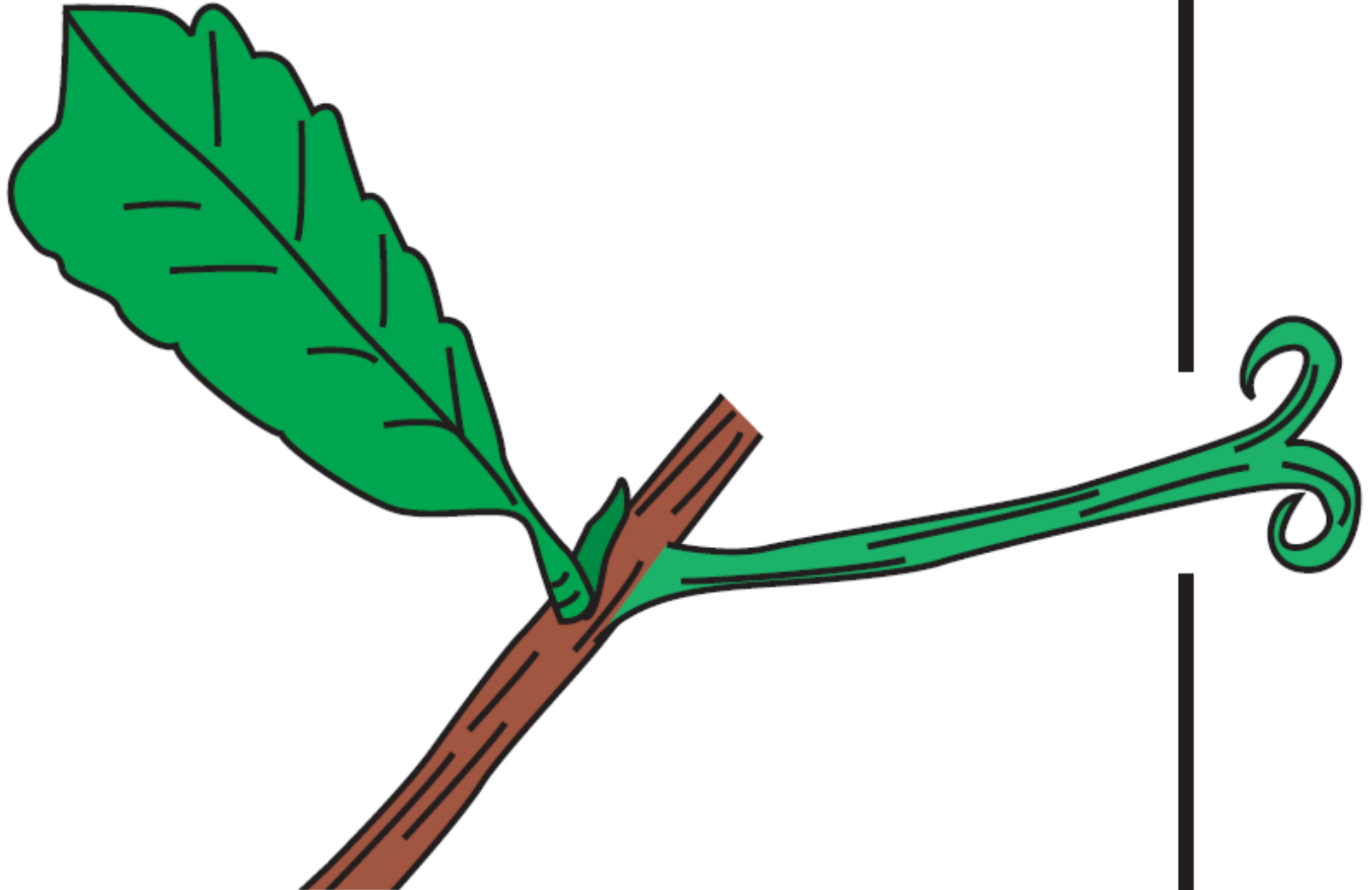
What is this?



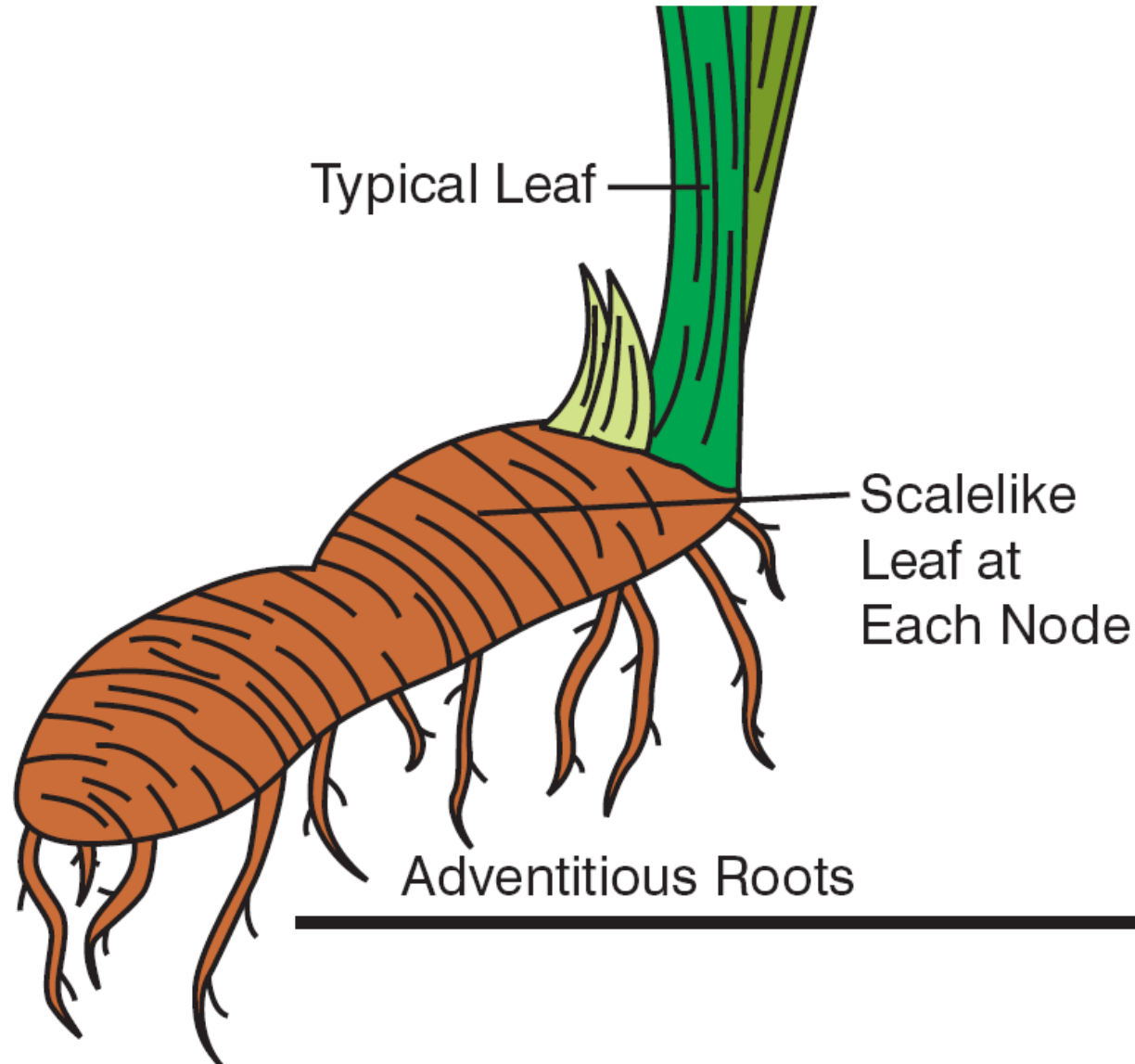
Bulb



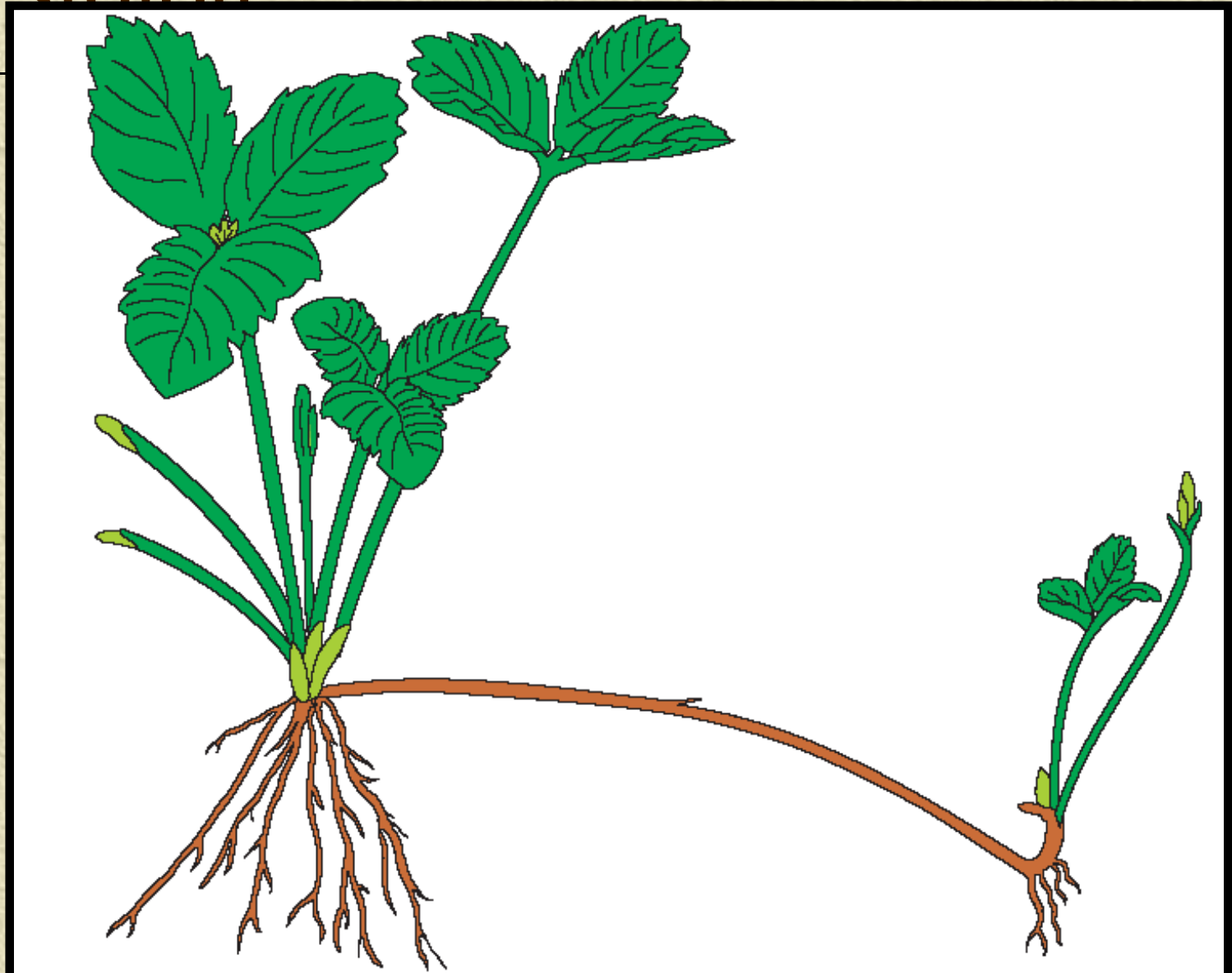
Tendrils



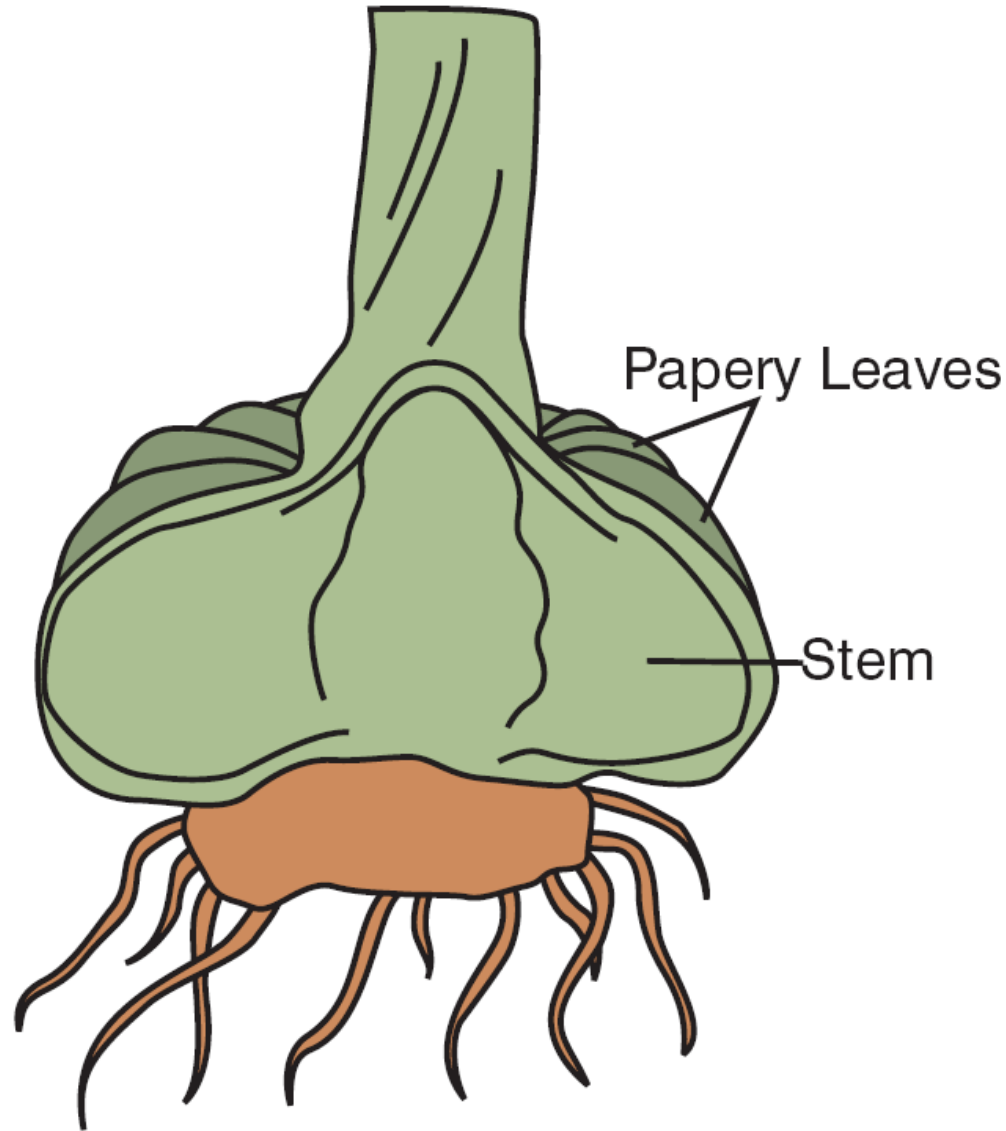
Rhizome



Stolon



Corm



Tuber

