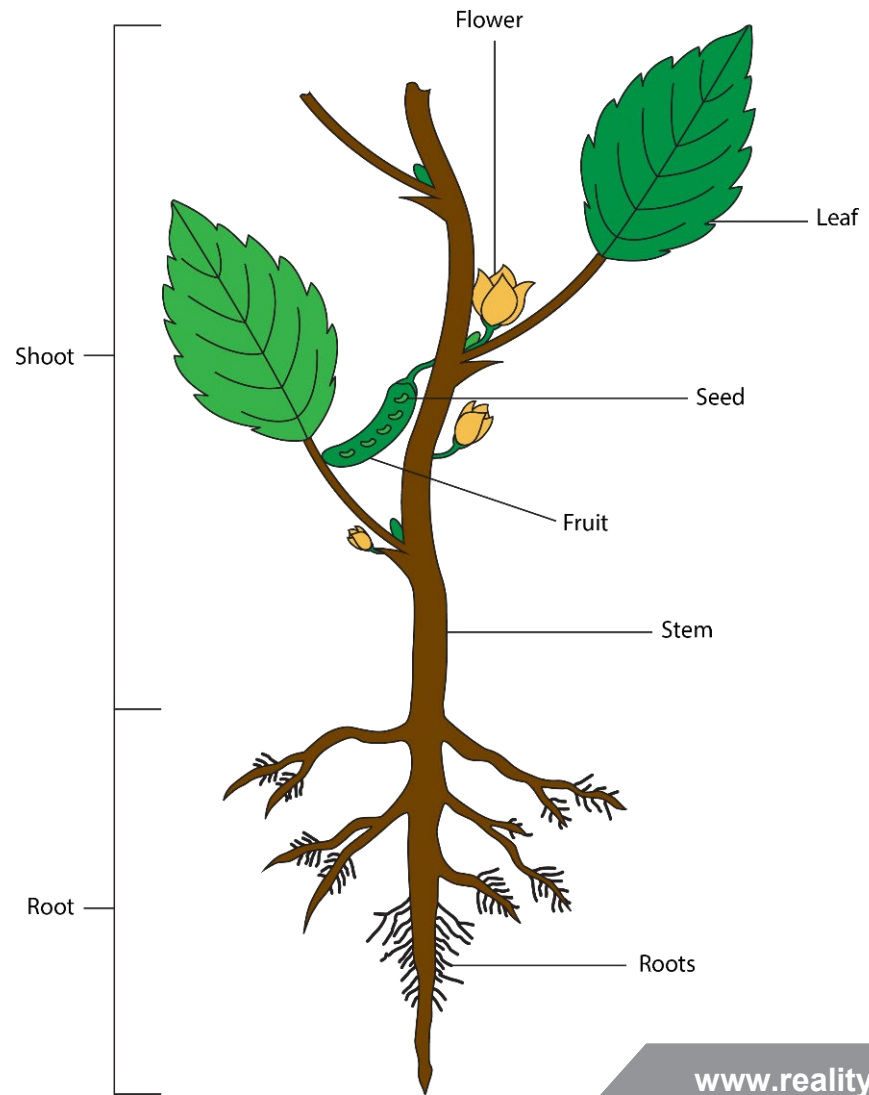


Plant Structure

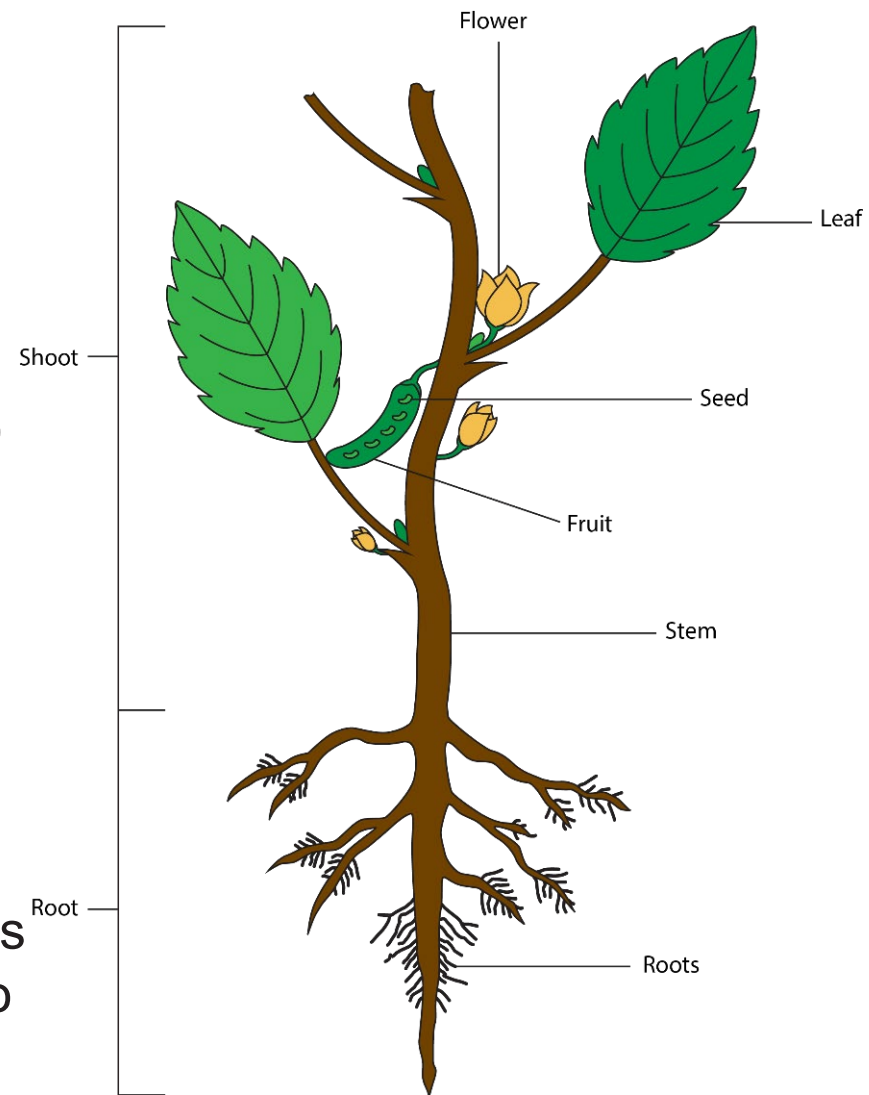
- Roots
- Stem
- Leaf
- Fruit
- Flower
- Seed



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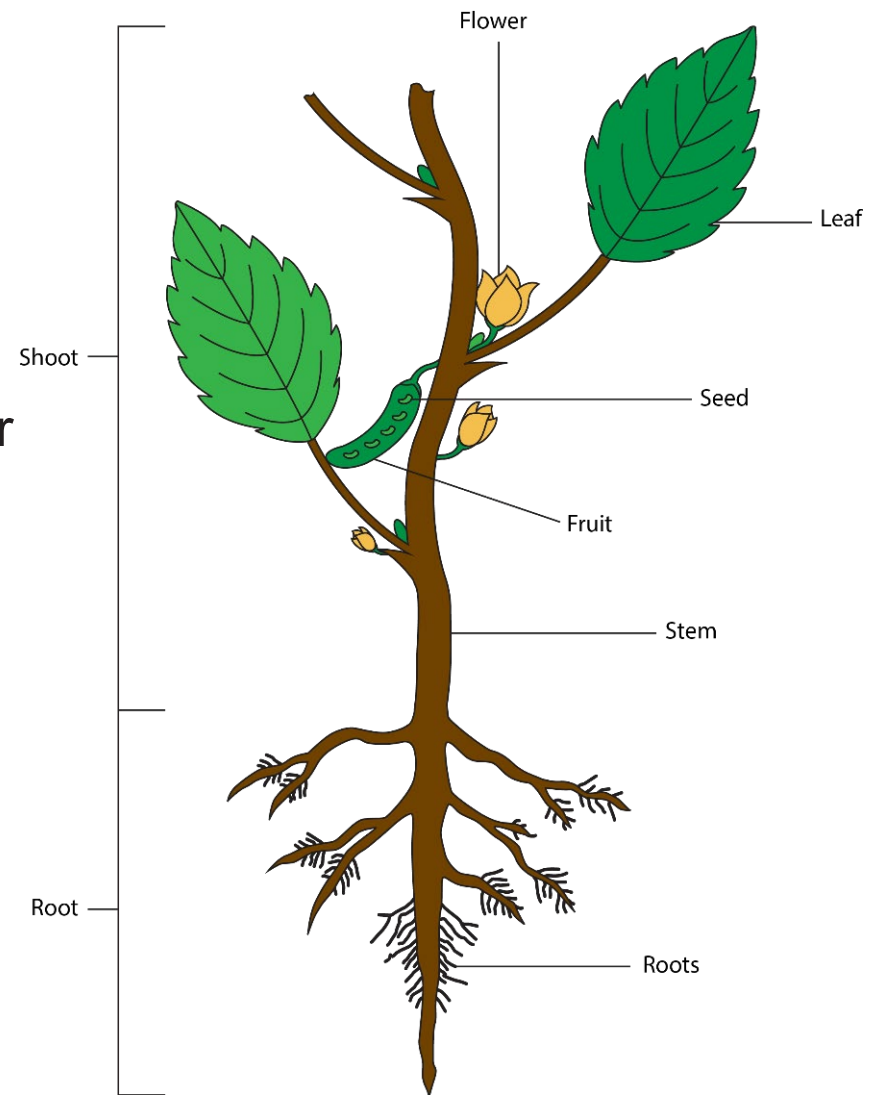
Plant Definitions

- **Roots:**
 - Pull water and nutrients from the surrounding environment (soil or water) to feed the plant
 - Help keep the plant securely situated where it is located
- **Stem:**
 - Trunk structure that holds the roots to the leaves
 - Works as a support structure, but also is where water and food are transferred to the leaves
 - Branches are also considered part of the stem structure



Plant Definitions

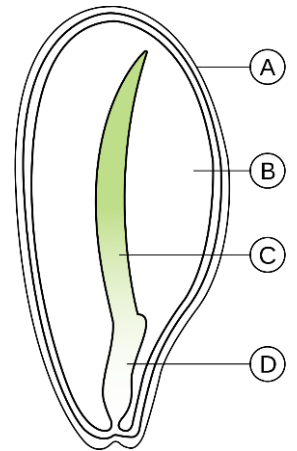
- **Leaf:**
 - Flat structure that is attached to the plant's stem, used to collect sunlight for photosynthesis
 - Where transpiration takes place
 - When healthy, usually green in color
- **Fruit:**
 - Seed-bearing structure from the flowering plant
- **Flower:**
 - Structure that produces the seed-bearing fruit
 - Consists of reproductive organs to reproduce fruit



Plant Definitions

- **Seed:**

- Embryonic plant covered with a hard shell or outer covering
- Like a baby plant (embryo) ready to be born
- Seeds include:
 - A. Seed coat: protective outer layer
 - B. Endosperm: tissue produced inside the seeds of most of the flowering plants following fertilization
 - C. Cotyledons: the stored food supply
 - D. Embryo: contains the early form of the organs the plant needs to live



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Germination and Seeds

- To grow seeds they need water, warmth, and some need light to break their dormancy
- Germination is defined as the growing process of a seed
- As a seed germinates, it pushes through the seed coat using stored energy
- Once the seedling emerges above the surface, it begins to grow its own stem