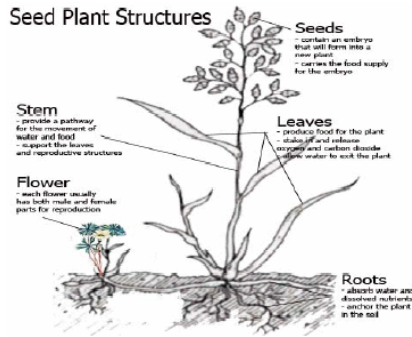


Grade 7 - Unit 2 – Plants for Food and Fibre Concepts

Each Plant Structure Has A Specific Function



Plant Needs

- Light
- Water
- Nutrients (Soil)
- Space (Habitat)
- (Proper growing Conditions are needed)

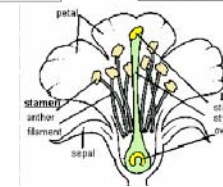
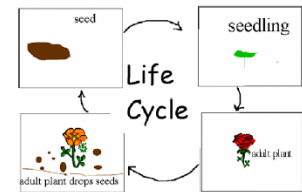
Adaptations

- Protection
- Water Retention
- Leaf surface area
- Length and type of root system
- Color & scent of flowers
- Protective coating (resin)

Plant Processes

- Moving Water**
 - Osmosis
 - Diffusion
 - Capillary Action
 - Active Transport
 - Transpiration
- Making Food Using Food**
 - Photosynthesis
 - Cellular Respiration

The Life Cycle of Seed Plants



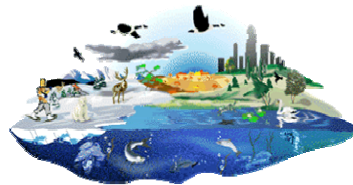
Reproduction

Pollination (process)
Pollinators (wind, water, animals)

Vegetative Reproduction

- Runners
- Rhizomes (Tubers, bulbs, corms)
- Suckers
- Cuttings and Grafting

Our Living Resources



- Role of Plants**
- Produce Oxygen
 - Provide Shelter
 - Provide Protection
 - Make Food
 - Used as Raw Materials

- Use of Plants**
- Food
 - Fibre
 - (Shelter, Clothing & other materials)
 - Medicine
 - Fuel
 - Transportation & Construction

Soil

- Composition**
- Minerals
 - Organic Matter (humus)
 - Air
 - Water

- IMPROVE or DEGRADE Quality
- Fertilizer Use
 - Irrigation
 - Clearing Land
 - Plowing
 - Crop Rotation

- Types**
- Sandy Soil
 - Clay Soil
 - Loam Soil

Managing Our Living Plant Resources

- Plant Technologies**
- Production (increase yield)
 - Harvest
 - Selective Breeding
 - Genetic Engineering



- Artificial Environments**
- Greenhouses
 - Hydroponics

- Maintaining Quality**
- Herbicides/Pesticides/Insecticides
 - Biological Control

Environmental Management