

REVIEW

Unit 2 – Plants For Food And Fibre

1.0 Structures and Life Processes

- ❖ Seed plants have roots, stems, leaves and either flowers or cones
- ❖ Each structure performs a specific function
- ❖ Life processes in plants include: **Photosynthesis, Transpiration Gas exchange (cellular respiration)**
- ❖ Seed plant life cycle includes three stages: **Seed stage, Seedling stage, and Adult stage**
- ❖ **Pollination** is the joining of pollen and ovary
- ❖ Seed plants can also reproduce in ways not involving seeds: **Runners, rhizomes, suckers, cuttings and grafting**
- ❖ Adaptations help plants get what they need from the environment
- ❖ Growing conditions varies between and among plants, and can be modified using technology

2.0 Role of Plants to Meet Human Needs

- ❖ Plants supply oxygen and food
- ❖ Plants are used for food, fibre (to make things), medicine, and other products
- ❖ Natural resources vs Managed resources

3.0 Soil

- ❖ Minerals and organic matter in different amounts make clay, sandy soil or loam
- ❖ Growing and harvesting methods can improve or degrade soil

4.0 Growing and Using Plants – Sustainability

- ❖ **Selective breeding** provides specific desirable traits
- ❖ New varieties may lead to environmental problems
- ❖ **Resistance**, loss of species or pollution can occur with long term use of herbicides and pesticides
- ❖ **Sustainability** – balancing out needs with the needs of the environment and the consequences (social and economic)