

**YEAR 9 BASIC SCIENCE**  
**RECAP WORKSHEET 1**  
**SUBSTRAND : STRUCTURE AND LIFE PROCESSES**

**Day 1**

1. Draw a plant and label the following part:  
Root, Root hairs, Stem, Leaf, Flower, Fruit
2. State the function of:
  - a) Root hairs
  - b) Seeds
  - c) Stomata
  - d) Waxy layer
  - e) Chloroplast
3. Draw the cross-section of a stem and cross section of a root.

**Day 2**

4. Identify the adaptive features and functions of the following parts:
  - a) Leaves
  - b) Stems
  - c) Roots
5. State one difference between aquatic plant and terrestrial plants.
6. Draw the internal structure of flower and label its parts.

**Day 3**

7. Outline the four steps you will use to test for starch.
8.
  - a) Define transpiration.
  - b) List two importance of transpiration.
  - c) State two environmental factors that affect the rate of transpiration.

**Day 4**

9.
  - a) Define photosynthesis.
  - b) List two importance of photosynthesis
  - c) State two factors that affect photosynthesis.
10. Describe the experiment you will set up to show that carbon dioxide is necessary for photosynthesis.
11. Identify and describe two natural methods of asexual reproduction in plants.

## Day 5

12. Identify and describe two artificial vegetative methods of reproduction in plants.
  
13.
  - a) Define Fertilisation.
  - b) Define Pollination.
  - c) Differentiate between self-pollination and cross pollination.
  - d) State two differences between insect pollinated and wind pollinated flowers.
  - e) Explain two methods of seed dispersal with examples.