

Grade 10 Life Sciences Scope and Notes.

Strand 1: Life at Molecular, Cellular and Tissue Level (continued)

Topic 01: Plant and Animal Tissues (continued)

Animal Tissues

The Four basic types with some examples:

- epithelial;
- connective;
- muscle; and
- nerve tissues

The relationship between structure and function. (No detail required - some tissues, e.g., blood and nerves in the reflex arc, will be covered in more detail in relevant sections.)

Applications of Indigenous Knowledge Systems and Biotechnology

- traditional technology, e.g., traditional medicines and healers;
- medical biotechnology, e.g., immunity, vaccines, antibiotics and blood transfusions; and
- the cloning of plant and animal tissues and stem cell research (ethics and legislation).

Topic 2: Organs

Organs consist of a number of tissues. Leaf structure will be used as an example of an organ. Other organs will be dealt with in their relevant sections in life processes.

Leaf Structure

A cross-section of a dicotyledonous leaf to demonstrate and explain its structure in terms of its functions, i.e. photosynthesis, gas exchange and transport. Link this with plant tissues, appropriate cell organelles, movement across membranes and movement of molecules into, through and out of the leaf.

Strand 2: Life Processes in Plants and Animals

Learners explore the anatomy of plants and animals in respect of support and transport systems. In animals, the different support systems are compared, with a focus on the human support system and locomotion.

Topic 3: Support and Transport Systems in Plants

Anatomy of Dicotyledonous Plants (link to Grade 7)

- Root and stem: the distribution of different tissues;
- the structure of cells in different tissues ([link to plant tissues](#)).

Secondary growth ([link to cell division](#)); the annual rings in a tree trunk to assess age and to infer climate change.

Transpiration

The relationship between water loss and leaf structure ([link to Term 1](#)).

Factors that affect the rate of transpiration are:

- temperature;
- light intensity;
- wind;
- humidity.
- **Wilting and Guttation**
- the intake of water and minerals into the xylem in roots;
- the transport of water and minerals to leaves;
- The translocation of manufactured food from leaves to other parts of plant.

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