

Alteration of generations

During the life cycles of each of the four plant groups two definitive generations occur, i.e.

- **Gametophyte generation**, which is sexual, and produces **gametes**
- **Sporophyte generation**, which is asexual, and produces **spores**

These two generations alternate in that the one generation gives rise to the other. This phenomenon is known as **alternation of generations**.



BRYOPHYTES (MOSES)

- Bryophytes include three groups, namely:

- mosses
- liverworts
- hornworts



Mosses are the first plants that are thought to have lived on land 450 million years ago.

- Mosses grow in cool, moist, shady environments.
- The **gametophyte generation** is the **dominant** generation and is represented by the **adult moss plant**.
- The plant body is known as a **thallus**, because it does not have true roots, stems and leaves.
- Instead it has **leaf-like structures**, **stem-like structures** and **rhizoids**.
- The **rhizoids** anchor the moss plant firmly in the soil and absorb water and mineral salts.
- **Vascular tissue** (xylem and phloem) are **absent**.



- Gametes (ova and sperm) are produced in male and female sex organs of the gametophyte.

Remember: The gametophyte generation produces gametes for sexual reproduction.



- In sexual reproduction, the sperm **requires water** to move to the ovum for fertilisation to occur.
- After fertilisation has occurred a **zygote** is formed which is the beginning of the **sporophyte generation**.



- The sporophyte develops on the gametophyte and it is dependent on it.
- The sporophyte consists of a **foot** (part which is anchored in the gametophyte), and a **seta** which bears a capsule known as the **sporangium**.

A sporangium is a structure that produces and stores spores.

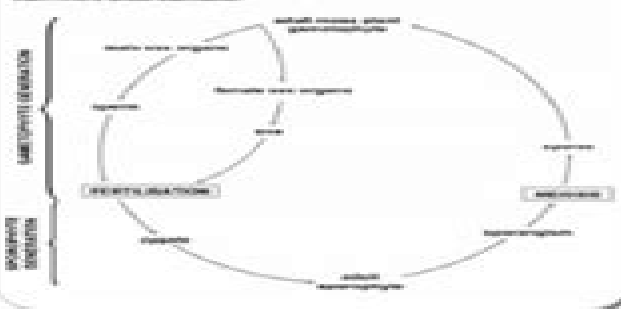


- The sporangium is covered with a cap, the **calyptra**.
- The **spores** form in the sporangium.
- The sporangium eventually dies out and releases the spores.
- The spores are dispersed by the wind and germinate in damp soil.
- A new plant, representing the **gametophyte generation**, develops.



Note: that moss plants do not produce seeds and fruit.

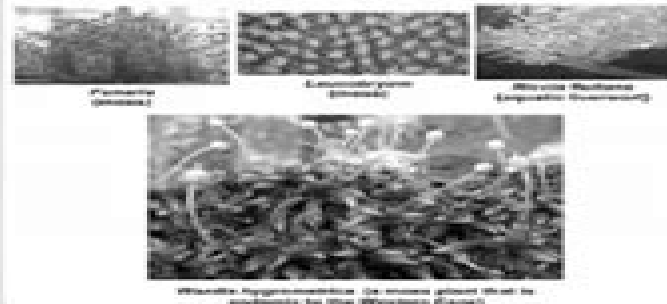
The life cycle of Bryophytes is represented below. You do not have to learn it, it is simply given to illustrate the concepts in context and make them more understandable.



Overview

BRYOPHYTES	Structure of dominant generation (gametophyte)	Vascular tissue	Spores/seeds	Fruit	Dependency on water for reproduction
Mosses, Liverworts, Hornworts	Thallus - no true roots, stems or leaves	Absent	Spores	None	Water required for fertilisation

South African examples of Bryophytes

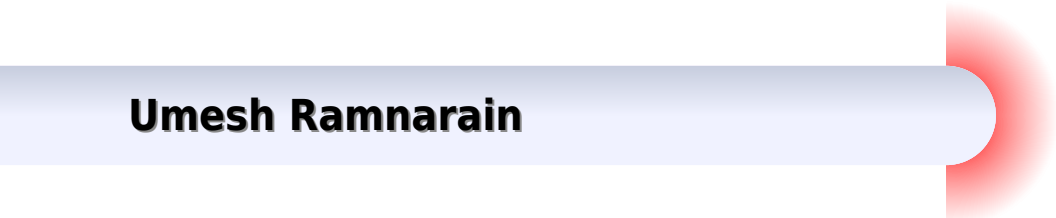


PTERIDOPHYTES (FERNS)

- Pteridophytes are a group of plants that are adapted to life on land.
- Ferns mostly occur in cool, shady environments.
- Unlike the Bryophytes, the sporophyte generation is the dominant generation in ferns.
- The adult fern plant represents the sporophyte generation.
- The fern has **true roots, stems and leaves** i.e. it is not a thallus.
- In most ferns (excluding tree ferns) the stem is a horizontal, underground **rhizome**.

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