

Fungi Notes Guide

Use the following notes guide to help you keep track of your learning about the characteristics and classification of Fungi.

Introduction to the Kingdom Fungi

Are Fungi eukaryotes or prokaryotes?

Where are Fungi found (habitat)?

What size are fungi?

Why are fungi vital for life on Earth?

What is a **mycologist**?

List the basic characteristics of all Fungi here:

To which other eukaryotic Kingdom are Fungi more closely related?

Fungal Structure

Describe features of Fungal cell wall:

Define the three structures that make up most Fungi. Sketch a picture of each.

| Structure | Definition/Explanation | Sketch |
|---------------|------------------------|--------|
| Hyphae | | |
| Mycelium | | |
| Fruiting body | | |

Fungal Nutrition

Do fungi have chloroplasts?

For each of the four modes of nutrition mentioned, jot down a few notes/examples.

| Mode of Nutrition | Explanation | Examples: |
|--------------------|-------------|-----------|
| Decomposer/Saprobe | | |
| Parasite/Pathogen | | |
| Symbioses | | |
| Predators | | |

Fungal Reproduction

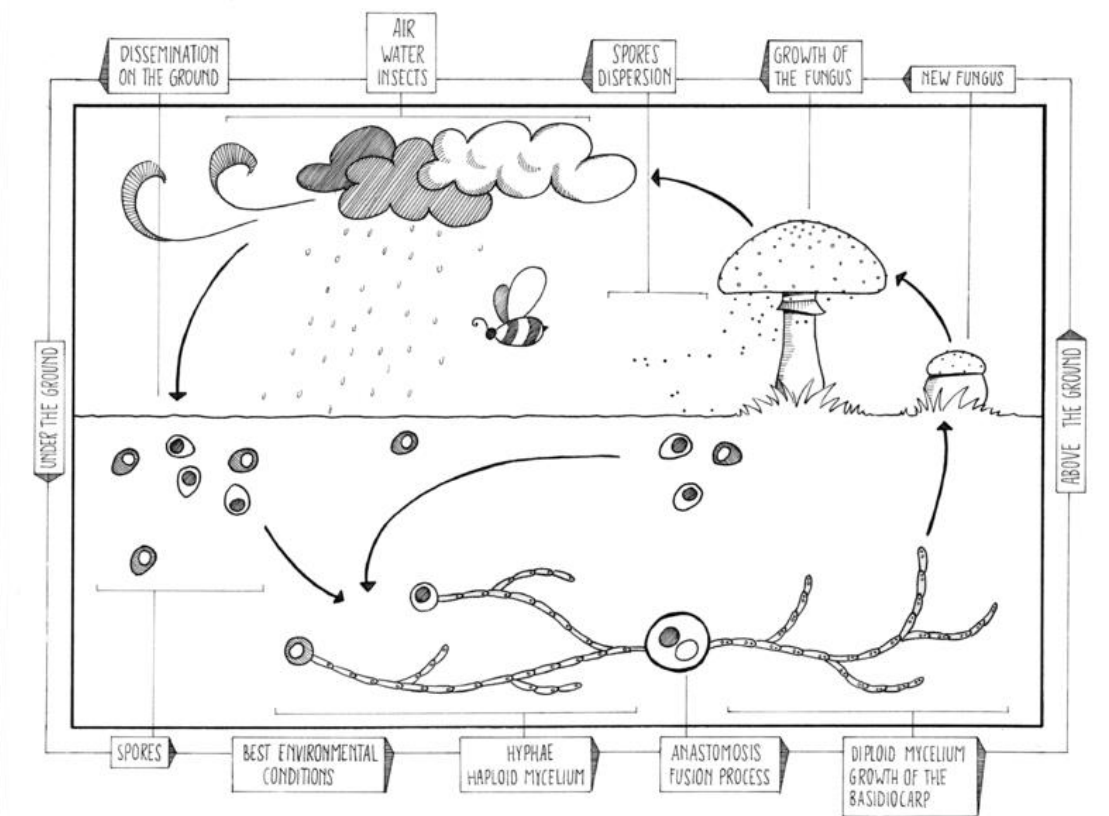
List the 3 ways in which Fungi sexually reproduce:

- 1.
- 2.
- 3.

All sexual reproduction in Fungi involves _____.

Fungal Life Cycle

Annotate the diagram below to describe a Fungus' life from spore to fruiting body:



Classification of Fungi

Complete the table below to organize your thoughts from reading about the taxonomic groups of Fungi:

| Division (Phylum) | Examples | General Features | Sexual structures unique to this Division |
|-------------------|----------|------------------|---|
| Zygomycota | | | |
| Ascomycota | | | |
| Basidiomycota | | | |
| Deuteromycota | | | |

What is a Lichen?

Describe at least one way in which lichens are important ecologically:

Beneficial Fungi

Give an example of how the Fungi are beneficial in each of the following areas:

- Economically -
- Medically -
- Ecologically -

Harmful Fungi

Give an example of how the Fungi are harmful in each of the following ways:

- Economically -
- Medically -
- Ecologically -