**Fungus among us**

AKA \_\_\_\_\_\_\_\_\_\_\_\_\_\_ (plural)

* A **\_\_\_\_\_\_** (plural: **fungi** or funguses) is any member of the group of eukaryotic organisms that includes microorganisms such as \_\_\_\_\_\_\_ and **\_\_\_\_\_\_**, as well as the more familiar **\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_**.
* Fungi are more closely related to **\_\_\_\_\_\_\_\_\_\_** than **\_\_\_\_\_\_\_\_\_\_\_\_**.
* Fungi are **\_\_\_\_\_\_\_\_\_\_\_\_\_\_**: they use complex **\_\_\_\_\_\_\_\_\_\_\_\_** compounds as sources of energy and **\_\_\_\_\_\_\_\_\_\_\_**, not photosynthesis. (they break down things and eat the carbon)
* The rigid layers of **\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_** contain complex polysaccharides (What are those?) called **\_\_\_\_\_\_\_\_\_\_\_\_\_\_** and glucans.
* Unlike plants cell walls that are made of **\_\_\_\_\_\_\_\_\_\_\_.**
* Chitin, also found in the exoskeleton of **\_\_\_\_\_\_\_\_\_\_**, gives **\_\_\_\_\_\_\_\_\_\_\_\_** to the cell **\_\_\_\_\_\_\_\_\_\_\_** of fungi.
* The wall protects the **\_\_\_\_\_\_\_\_\_\_\_\_\_\_** from desiccation (loss of **\_\_\_\_\_\_\_\_\_\_)** and predators.
* The vast majority of fungi are **\_\_\_\_\_\_\_\_\_\_\_\_\_**.
* However Fungi can be **\_\_\_\_\_\_\_\_\_\_\_\_\_\_**, multicellular, or **\_\_\_\_\_\_\_\_\_\_\_\_**, which is when the fungi is unicellular or multicellular depending on **\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_** conditions.
* To re “cap”
* Most of the body of a fungi is made from a network of long, thin filaments called '**\_\_\_\_\_\_\_\_\_**'. Hyphae are the main mode of vegetative growth, and are collectively called a **\_\_\_\_\_\_\_\_\_\_\_\_\_**.
* Hyphae filaments are made from tubular cells that connect end on end. Each cell is surrounded by a **\_\_\_\_\_\_\_\_\_\_\_\_\_\_**composed of a compound called **\_\_\_\_\_\_\_\_\_\_\_\_**.
* **Life cycle of fungi**
* New colonies of fungi can grow from the **\_\_\_\_\_\_\_\_\_\_\_\_** of hyphae known as \_\_\_\_\_\_\_\_\_.
* During **\_\_\_\_\_\_\_\_\_**, a bulge forms on the side of the cell; the bud ultimately detaches after the **\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_** (as a duplicate just like a cell).
* **\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_** are genetically identical to the parent and may be released either **\_\_\_\_\_\_\_\_\_\_\_\_**or **\_\_\_\_\_\_\_\_\_** a special reproductive sac called a **\_\_\_\_\_\_\_\_\_\_\_\_\_**.
* **\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_**conditions are what often causes **sexual** reproduction in fungi, possibly for survival.