**Name \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ Date \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_**

Microorganism notes from power point \*\*p. 21 in your notebook

Microorganism

* + Comes from the Greek words, *mikrós*, meaning ­­­­­\_\_\_\_\_\_\_\_\_\_and *organismós*, meaning ­­­\_\_\_\_\_\_\_\_\_\_
  + \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ are also known as *microbes*.
  + The study of microorganisms is called *\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_.*
  + A microscopic organism comprises either a single cell, cell clusters, or no cell at all.
    - Unicellular: \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_.
    - Acellular: \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_.
    - Multicellular: \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_.

There are 2 main categories of cells

1. Prokaryotic cells

* + - * Cells that \_\_\_\_\_\_\_\_\_\_\_contain a \_\_\_\_\_\_\_\_\_\_\_\_\_\_
      * Ex.) \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

2. Eukaryotic cells

* + - * Cells that \_\_\_\_\_\_\_\_\_ contain a \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_
      * Ex.) ­­­­\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_
  + Microorganisms can also be \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_or \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_.

An **\_\_\_\_\_\_\_\_\_\_\_\_\_** is an organism that \_\_\_\_\_\_\_\_ make their own food typically through photosynthetic processes.

A **\_\_\_\_\_\_\_\_\_\_\_\_\_\_** is an organism that \_\_\_\_\_\_\_\_ make their own food.

* Methods of ­­­­\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ in some microorganisms
  + Flagellum (flagella, pl.)
    - \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_
    - \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_
      * Ex. Sperm cells
  + Cilium (cilia, pl.)
    - \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_
    - \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_
  + Pseudopod
    - A temporary \_\_\_\_\_\_\_\_\_\_ like extension of a \_\_\_\_\_\_\_-celled organism, such as an \_\_\_\_\_\_\_\_\_, used for moving about and for surrounding and taking in food.
* Examples of common microorganisms

\_\_\_\_\_\_\_\_\_\_\_\_\_\_

* + - One-celled, non-nucleus containing microorganism that comes in various shapes from \_\_\_\_\_\_\_\_\_\_\_\_, \_\_\_\_\_\_\_\_\_\_\_\_\_\_, to \_\_\_\_\_\_\_\_\_\_\_\_\_\_.

--Toxin: \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_.

* + - Diseases caused by bacteria
      * \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_
      * \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_
      * \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_
      * \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_
      * \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_
      * \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

Virus

* + - a small \_\_\_\_\_\_\_\_\_\_\_ organism that can replicate only inside the living cells of organisms.
    - Most viruses are too small to be seen directly with a light microscope.
    - Viruses \_\_\_\_\_\_\_\_\_\_ all types of organisms, from \_\_\_\_\_\_\_ and \_\_\_\_\_\_\_\_\_ to \_\_\_\_\_\_\_\_\_\_\_.
    - 1st discovered in 1898, there are millions of different types.
    - Diseases caused by viruses include
      * \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_
      * \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_
      * \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_
      * \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_
      * \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_
  1. Fungi
     + Many \_\_\_\_\_\_\_\_\_ are \_\_\_\_\_\_\_\_\_\_ on \_\_\_\_\_\_\_\_ and \_\_\_\_\_\_\_\_\_, including \_\_\_\_\_\_\_\_\_\_.
     + Some fungi can cause serious diseases in humans several of which may be fatal if untreated.
     + Diseases caused by fungi include…
       - \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_
       - \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_
       - \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_
       - \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_
  2. Protists
     + \_\_\_\_\_\_\_\_\_\_\_\_\_ or \_\_\_\_\_\_\_\_\_\_\_ organism without specialized tissues.
     + Diseases caused by protists include…
       - \_\_\_\_\_\_\_\_\_\_\_\_\_\_
       - \_\_\_\_\_\_\_\_\_\_\_\_\_\_

-- \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_