**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…
			- \_\_\_\_\_\_\_\_\_\_\_\_\_\_
			- \_\_\_\_\_\_\_\_\_\_\_\_\_\_

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