**Notes: Cell Structure & Function**

**Cell Theory**

1. All living things are \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_
2. The cell is the \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_
3. All cells come from \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

**Cell Structure & Function**

## Cells are \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ so they can perform different jobs. Function & shape are often related.

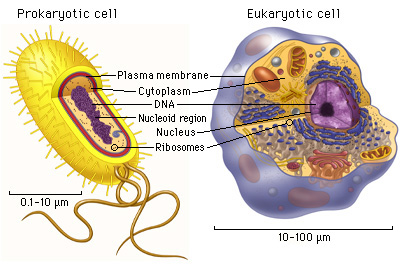
## -Label the cells below.

## 

**2 types of cells: Prokaryotes vs. Eukaryotes**

1. **Prokaryotic cells** - \_\_\_\_\_\_\_\_\_\_\_\_\_\_, no nucleus and no \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_organelles.

Ex: \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

1. **Eukaryotic cells** - \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_, have a DNA filled \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ and membrane bound organelles.

Ex: \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

**\*\*No matter what, all cells have 4 things in common:**



**2 types of Eukaryotic cells: Plant vs. Animal**

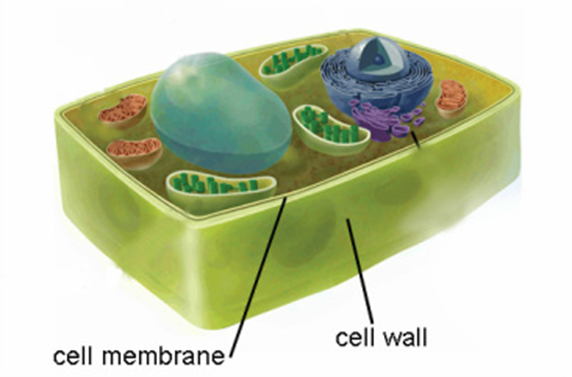
* Plant cells have \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_
* Plant cells have \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_
* Plant cells have \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_
* Animal cells have \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_



\_\_\_\_\_\_\_\_\_\_\_\_\_\_ cell

\_\_\_\_\_\_\_\_\_\_\_\_\_\_ cell

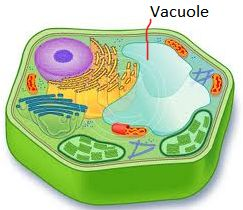
* An **\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_**is a tiny structure that performs a specialized function (or job) in the cell. Ex: nucleus, chloroplast, ribosome
* Organelles are suspended in the \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_: jelly-like substance inside the cell where chemical reactions occur

**Cell Wall**

* Location:
* Function:

**Cell Membrane**

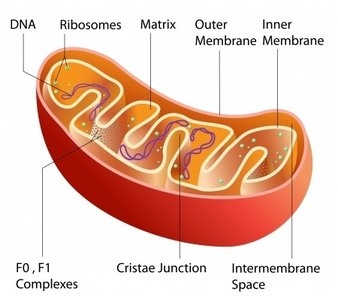
* Location:
* Function:

**Vacuole**

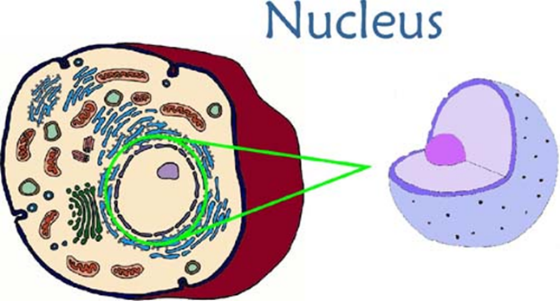
* Location:
* Function

**Chloroplast**

* Location:
* Function:

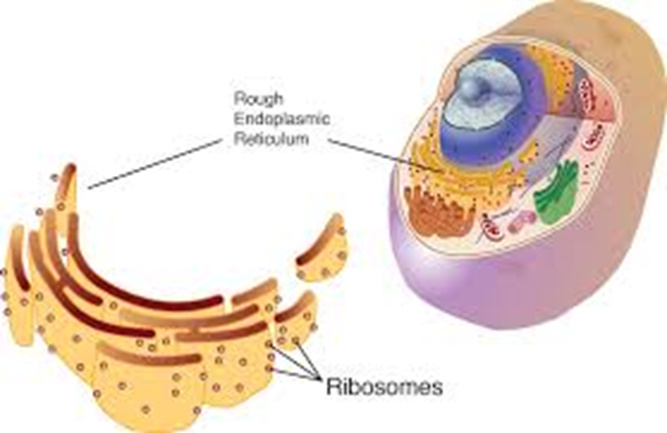
**Mitochondria**

* Location:
* Function

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**Nucleus**

* Location:
* Function

**Ribosomes**

* Location:
* Function

|  |  |  |
| --- | --- | --- |
| **Cell Adaptations** | **Function** | **Picture** |
|  | extensions of cytoplasm that are used for \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ & \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ |  |
|  | Organelle that \_\_\_\_\_\_\_\_\_\_\_\_\_ \_\_\_\_\_\_\_\_\_\_\_\_\_ which is needed for **chloroplasts** to do photosynthesis. | Image result for euglena eyespot |
|  | structure that helps **remove** \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ from the cell | Image result for contractile vacuole |
|  | Short hair-like projections from the membrane that \_\_\_\_\_\_\_\_ \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ | Image result for cilia cell |
|  | Long **whip-like structure** that extends from cell membrane; \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ | Image result for sperm cell |

