**Cell Structure Guided Notes**

***Discovery of Cells (write down what each discovered)***

1) Robert Hooke-

2) Leeuwenhoek-

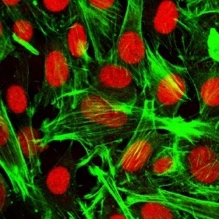
***The Cell Theory:***

1)

2)

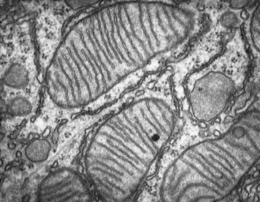
3)

***Modern Microscopes***



1) Confocal microscope-

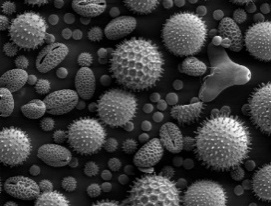
2) Electron Microscope-



Types of electron microscopes:

Transmission (TEM)-

Scanning (SEM)-



***There are 2 main types of Cells: \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ and \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_***

***Prokaryotic Cells***

NO \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_!!!!

**Characteristics of Prokaryotic cells:**

A)

B)

C)

D)

E) Example:

***Eukaryotic Cells***

Have a \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_!!!!

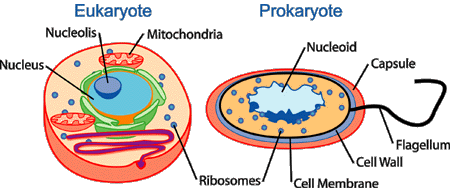
**Characteristics of Eukaryotic Cells**:

A)

B)

C)

D) Examples:



**Both prokaryotes and eukaryotes contain a \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ and \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_!**

***Eukaryotic Cell Structure***

**The 3 major parts of Eukaryotic Cells:**

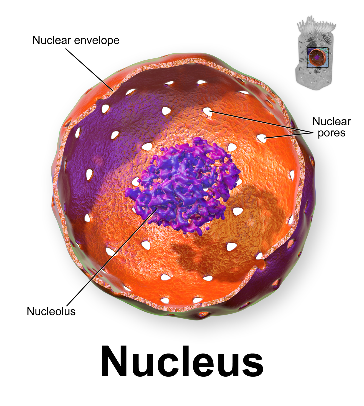
**1)**

**2)**

**3)**

**Nucleus**

Nucleus-

Parts of the nucleus:

1)

2)

**Cytoplasm**

cytoplasm-

organelles-

**ORGANELLES IN THE CYTOPLASM OF EUKARYOTIC CELLS**

1) **Ribosomes**

Structure:

Function:

Location:

2) Rough **endoplasmic reticulum (ER)**

 Structure:

Function:

Location:

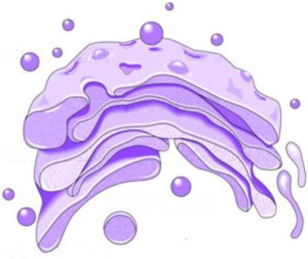
3) Smooth **endoplasmic reticulum (ER)**

Structure:

Function:

Location:

4) **Golgi apparatus**

 Structure:

Function:

Location:

5) **Lysosomes**

Structure:

Function:

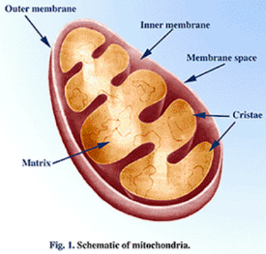
Location:

6) **Vacuoles**

Structure:

Function:

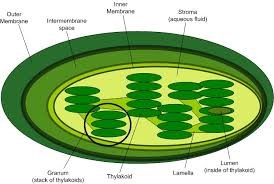
Location:

7) **Mitochondria**

Structure:

Function:

Location:

8) **Chloroplasts**

Structure:

Function:

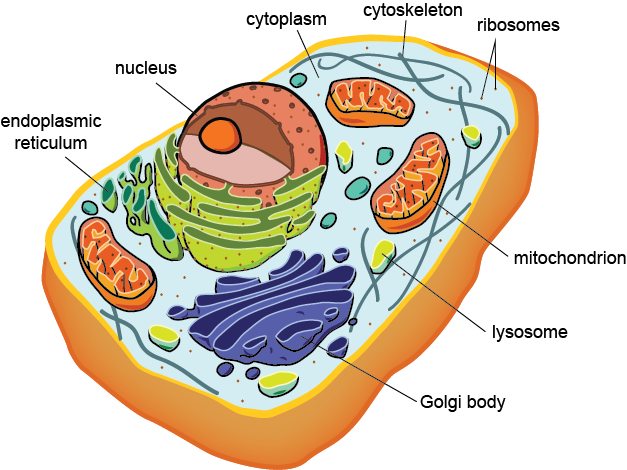
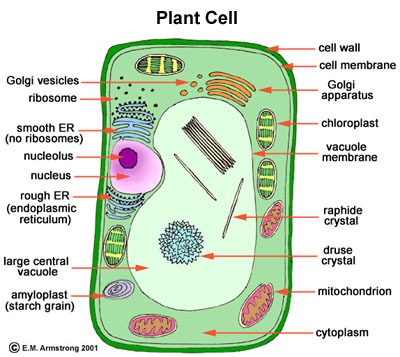
Location:

9) **cytoskeleton**

Structure:

Function:

Location:



Structures only found in plants (list 3):