

Name: _____ Date: _____ Hr: _____

CELL & ORGANELLE NOTES

There are two basic types of Cells:

1. PROKARYOTES

- _____
- _____
- _____

2. EUKARYOTES

- _____
- _____
- _____

Cells have _____ which are structures equivalent to organs in our body

- Each of these has a specific _____ & _____
- Each of these are surrounded by a _____ isolating it from the rest of the cell
- The Functions (6) of these may include:

There are two (2) main types of Cell Boundaries. They are:

_____ & _____

1. Plasma Membranes

- _____
- _____
- _____
- _____
- _____

2. Cell Wall

Name: _____ Date: _____ Hr: _____

- Is an Additional Boundary found _____
- Is found in what types of cells? _____
 - o Is NOT found where? _____
- Provides _____
- Is not as flexible as _____

NUCLEUS

- The nucleus of the cell manages _____
- It is surrounded by _____
 - o This has The nuclear envelope has _____
 - So material can _____
- _____ is housed in the Nucleus
 - o In the form of _____ which are _____
- The _____ is the center of the Nucleus that produces _____

ASSEMBLY

- o A major function of most cells is to make _____
- o Most of the assembly takes place within the _____
 - o _____ is a clear fluid gives _____
- o _____ & _____ are assembled on the _____ that were made in the _____ and shipped out
 - o _____ are an organelle even though they don't have a membrane surrounding them

ENDOPLASMIC RETICULUM

- Folded system of _____ found in the _____
- It connects the _____ to the _____.
- Involved in the _____
- Considered to be the delivery system of the cell

There are Two (2) types of Endoplasmic Reticulum

- Smooth ER: _____
- Rough ER: _____

Name: _____ Date: _____ Hr: _____

STORAGE

3 main types of storage organelles in the cell

- _____
- _____
- _____

ALL store extra materials needed for the cell

GOLGI APPARATUS

- Closely stacked, flattened _____(pancakes)
- Newly made _____and _____ from the ER are sent here
- Sent to the Golgi Apparatus in small packages called _____that were pinched off in the ER
- Vesicles are distributed to the _____and other cell organelles, _____, or _____for later use.

VACUOLES

- Sac of _____surrounded by a_____.
- Temporarily stores _____, _____, and other materials needed by the cell or _____such as excess water that will be expelled.
- _____ have a large central vacuole
 - Takes up much of a plant cell's _____
 - Can store_____

LYSOSOMES

- Organelles that contain _____
- Lyse= _____
- Responsible for breaking down excess or _____, _____, and _____
- The membrane surrounding lysosomes keeps these _____inside the lysosome

Name: _____ Date: _____ Hr: _____

ENERGY TRANSFORMERS

- Cells require _____ to carry out functions.
- _____ are membrane-bound organelles that transform energy for the cell
 - Break down food molecules and _____
- Energy is stored in other _____ that can power cell reactions

MITOCHONDRIA

- Has a _____ surrounding it
 - _____ membrane & _____ membrane
- Highly folded that _____
- Location of the _____ of energy storage molecule-Cellular Respiration
- Located in _____ and _____ Cells

CHLOROPLASTS

- Plants can't eat. So they _____
- That process is named _____
- Using _____, _____, and _____ to make food (_____) and _____