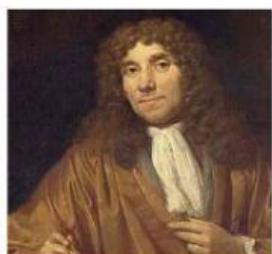


Unit 1. The Cell. The cell theory. Classification of cells. The different organelles and its functions.

1. Choose the correct name for each scientific.



2. Link with arrows these scientific with their scientific contribution.

Robert Hooke

Animals and plants are formed by cells

Leeuwenhoek

All tissues are formed by cells

Robert Brown

Discovery of protozoa and spermatozoa

Schleiden and Schwann

The cells come from other cells

Rudolf Virchow

First description of cells

Santiago Ramon y Cajal

The nucleus of the cell

3. Watch this video and answer the following questions:

[Prokaryotic vs Eukaryotic: The Differences | Cells | Biology | FuseSchool](#)

- _____ and _____ are prokaryotes. Whereas _____, _____ and _____ are eukaryotes.
- In prokaryotes, we call a nucleus without nuclear membrane a '_____'. It is simply the area in which _____ exists.
- _____ are the only organelles found in prokaryotic cells.
- Eukaryotes can meet their nutritional needs to grow _____ and multiply _____.
- All prokaryotes are _____ but eukaryotes can be either _____ or _____.

4. Select the correct sentence for each column heading in the table below.

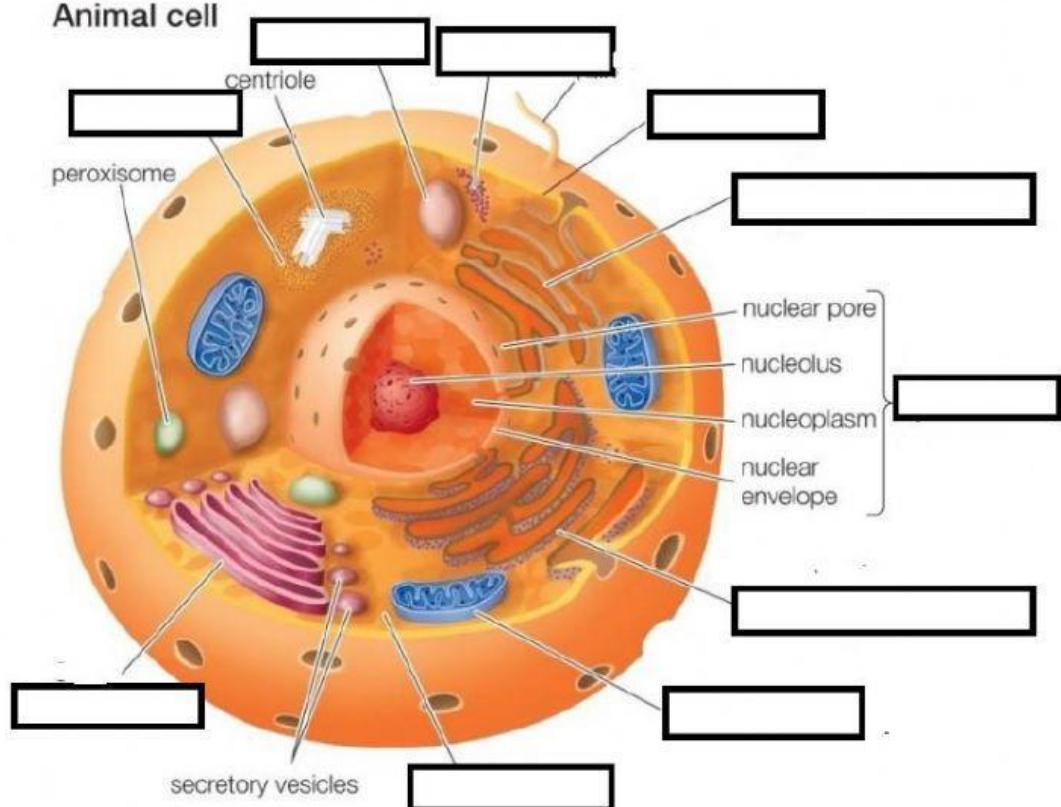
Cell theory	Cell characteristics	Prokaryotes vs Eukaryotes
Cells have a cell membrane responsible for regulating the entry and exit of substances	All cells contain genetic information into the DNA	Eukaryotic cells have the genetic material (DNA) protected by a double membrane
All living things are made of cells	Prokaryotic cells are the smallest and simplest cells	All living things are made of cells
All cells have ribosomes	Cells have a cell membrane responsible for regulating the entry and exit of substances	All cells contain genetic information into the DNA
All cells come from previous cells	Cells are the anatomical and physiological units of living things	Cells have a cell membrane responsible for regulating the entry and exit of substances
Prokaryotic cells are the smallest and simplest cells	Eukaryotic cells have the genetic material (DNA) protected by a double membrane	All cells come from previous cells
Cells are the anatomical and physiological units of living things	All cells have ribosomes	Prokaryotic cells are the smallest and simplest cells

5. Link the following sentences with one of the three vital functions of cells.

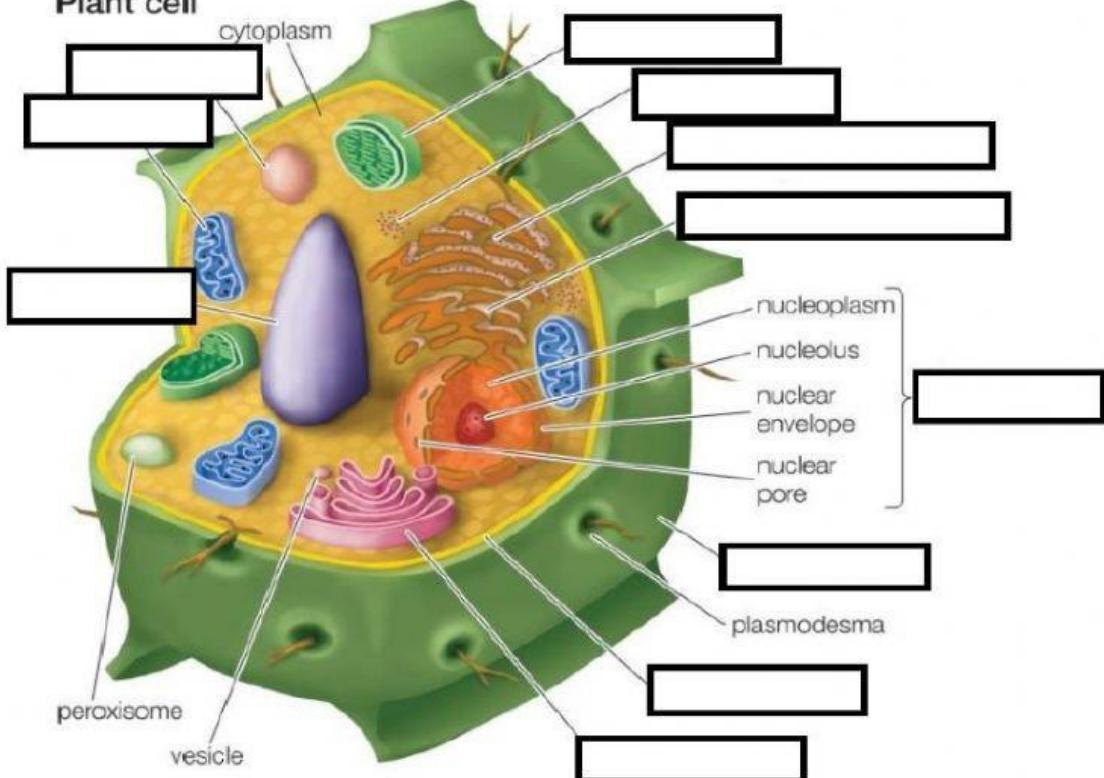
- Metabolism are the chemical processes that take part in the cells _____.
- Cells have got mechanisms to capture stimuli and respond to them _____.
- Cell division is the process in which one cell divides to form two new cells _____.
- Before the cell division, the cell duplicates its DNA _____.
- Cells can make their own materials _____.
- Cells can interact with other cells _____.

6. Complete the pictures with the names of the different organelles.

Animal cell



Plant cell



7. Link with arrows these pictures with their function:



Synthesizes and stores proteins



Processes protein made in the endoplasmic reticulum



Perform the digestion of subcellular particles



Synthesizes lipids and destroys toxic substances



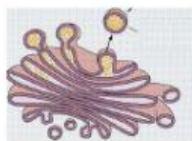
Store different types of substances



Organize cytoskeleton, direct movement of cilia or flagella and collaborate in cell division



Convert light energy into chemical energy in a process called photosynthesis



Make proteins using genetic information



Obtain the energy stored in nutrients into the process called cell respiration

8. Search information in “Google images” to choose the correct name of the following micrographs of different organelles.

