

Cell Structures

In our body systems unit, we look at both the function of those systems and the structures in those systems. We can look at cells the same way.

Here are the vocabulary words we used for body systems:

Structure - the shape and the kinds of tissues and cells that form organs and body systems.

Function - the specialized activities organs and body systems perform to contribute to survival

We can change these a little to describe cells

Structure - the actual parts of the cell that come together to form cells.

Function - the specialized activities that the parts of the cell do.

- **Write what you know about each of the following structures. Leave some open space in the boxes.**
- **Write them in your own words and in bullet points, not sentences**

Resources:

Issues and Life Science: Activity [42] - C-56 C-58

Cell Basics worksheet

Biology: Cell Structure Video

<u>Cell Membrane</u> /cell wall	<ul style="list-style-type: none"> ● Separates the inside of the cell from the outside of the cell ● Where things come in and out of the cell ● Provides support and protection for the cell ● Cell wall - plants only provides more support and structure <ul style="list-style-type: none"> ○ Tough and can be flexible or rigid (think tree v. plant) ○ Filters things coming in and out of the the cell
<u>nucleus</u>	
<u>cytoplasm</u>	
<u>mitochondria</u>	

Summarizing the structures

- Let's write a summary of these important cell structures.
- Write a few sentences about each cell structure. USE YOUR OWN WORDS AS MUCH AS POSSIBLE
- Use these sentence starters if necessary

The _____ is the structure that ...

It gives _____ to the cell.

It is where ...

The cell membrane (example) - I took my notes in my own words (hint: good idea)

The cell membrane is the structure that separates the inside of the cell from its environment outside. It gives the cell protection and helps support its shape. It is where all of the chemicals come in and out of the cell, so the cell can function and live. Plants (and fungi) also have cell wall that gives the cell a stronger structure and helps to filter things coming inside and outside of the body.

The nucleus

The cytoplasm

The mitochondria
