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The Plant and Animal Cells

I. Background for Learners

The cell being the smallest and basic unit of life is considered completely alive. It is the basic functional and structural unit of life because all organisms are made up of cells and all the functions of the body (physiological, biochemical, genetic and other functions) are carried by the cell.

Most of the cells cannot be seen by our unaided eye, but because of the advancement in science and the invention of the Microscope, the study how life is carried out in the smallest level of organization in an organism is now being unlocked. Have you not wondered how do cells look like? Are all cells the same? If not, in what ways are they different? levels.

II. Learning Competency:

Differentiate plant and animal cells according to presence or absence of certain organelles (S7LT-1c-3)

III. Concept

THE PARTS OF THE CELL AND THEIR FUNCTIONS



Nucleus- serves as the control center of the cell.

Plasma membrane/cell membrane- permits some substances but prevents others to pass through it.

Cytoplasm- a clear, jelly-like fluid that fills the inside of the cell and surrounds all of the internal structures and where all the rest of the parts of the

cell are found as well as the hosts of the processes taking place inside the cell.

Vacuoles - are storage bubbles found in cells. They are found in both animal and plant cells but are much larger in plant cells that stores much water.

Scientists also called it vesicle in animal cells. Vacuoles might store food or any variety of nutrients a cell might need to survive. They can even store waste products so the rest of the cell is protected from contamination. In some species of plant, it contains a poisonous substance to protect them against their predator.

Centrioles- can only be found in animal cells and are structures needed for cell multiplication that will be taken by you in higher science.

Mitochondrion- the powerhouse of the cell since it produces energy necessary for each and every single cell to perform their jobs.

Golgi body/apparatus- the packaging center of the cell. It sorts, modifies, packages cell products

Lysosomes- the suicide bags of the cell. They destroy cell debris that are not useful anymore.

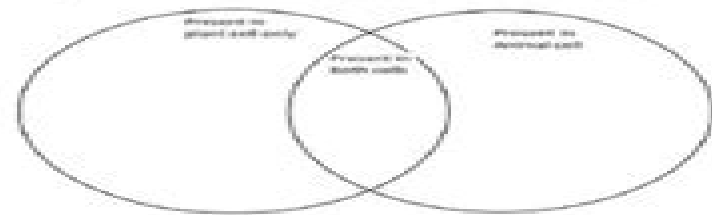
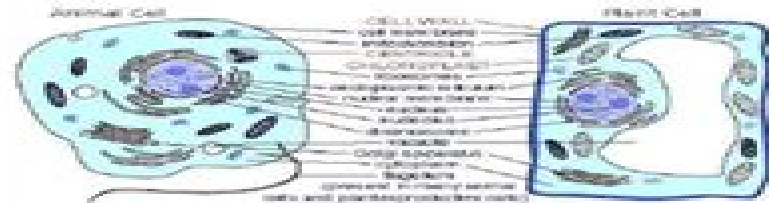
Cell wall- gives shape and protection for plant cells. It is only present in plant cell.

Chloroplast- the green organelle responsible for manufacturing food in the process called photosynthesis. It is only present in plant cell.

IV. Learning Task

ACTIVITY 1: Spot the Difference! (15 Points)

Directions: Study the Diagrammatic representation of plant and animal cell (Figure 1). In the Venn Diagram, write the common things that are found in both plant and animal cell in the center, on the right, write the part/parts that is/are only present in plant cell, on the left, write the part/parts that is/are present only in animal cell.



ACTIVITY 2: Tell me who I am! (12 Points)

Directions: Identify what part of the cell is being described in the riddle. Write your answer on the space provided before each number. Item 1 is done for you.

1. I hold all the parts of the cell together as they float on me. _____
2. Everyone do what I say. I am in control. _____
3. I used light energy to make food. _____
4. I break down food to release energy. _____
5. I am stiff. I protect and give shape to plant cells. _____
6. Everything I touch, I destroy. I clean useless cell debris. _____
7. I am quite full of water. I am responsible for the crisp appearance of the fresh vegetables. _____
8. If you were me, How would you want me? Soft or rough? _____

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Lingsheng Yao



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