

### Student learning outcome (SLO):


<ul style="list-style-type: none"> <li>• Structure of a plant cell.</li> </ul>	<ul style="list-style-type: none"> <li>• Levels of organization.</li> </ul>
<ul style="list-style-type: none"> <li>• Difference between a plant and an animal cell.</li> </ul>	<ul style="list-style-type: none"> <li>• Specialist plant cell.</li> </ul>

### Overview:

The main purpose of this lesson is to reinforce the names of the different organelles of the plant cell and their function.

### Introduction:

Video can be shown to explain a generalized structure of a plant cell.

<a href="https://www.youtube.com/watch?v=NkLvUuraSo4">https://www.youtube.com/watch?v=NkLvUuraSo4</a>	
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### Material:

The teacher will bring a chart of a plant cell showing its different parts.

### Keywords:

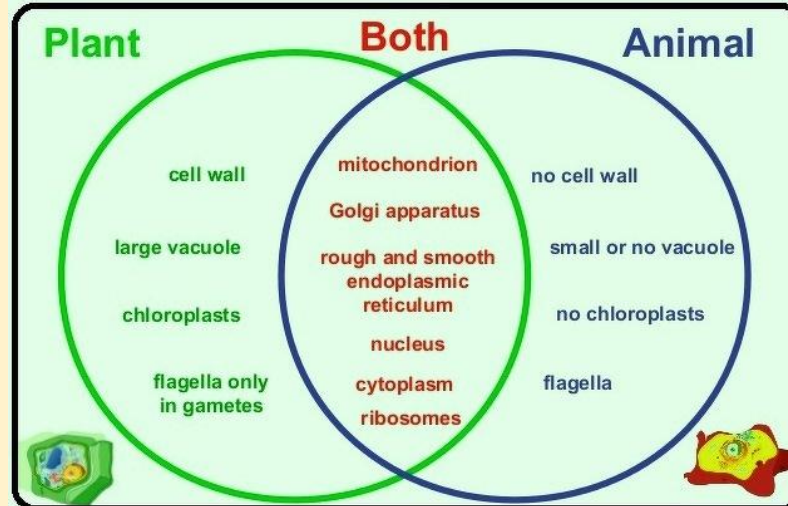
Cell wall, cell membrane, nucleus, cytoplasm chloroplast, mitochondria, vacuole.

### Activities:

1. Arrange two types of cut-outs; ones for the **organelles of the cell** and the others for **their functions**. Divide the class into two groups. Give the cut outs of the organelles of cell to first group. And the cut outs with the functions to the second group. Ask them to match the cut outs.
2. Show a picture of a different plant cells. Ask, 'Do all cells are similar or different, if different then what is their function?'
3. Draw a picture of a plant cell and label its part.
4. Cut and Paste Cells – This free cell worksheet set includes options for plant and animal cells. Students cut out the organelle names and glue the labels in the correct part of the cell.

5. Venn Diagram:

Venn diagrams are a great way to help students visualize the connections between two things, in this case, plant and animal cells. To make this graphic organizer, just draw two overlapping circles on a sheet of paper. Make sure to make the circles large enough to have room to write.



6. Plant cell games:

Students can also play these fun games to learn the different parts of a plant cell.

<a href="https://www.turtlediary.com/game/plant-cell-labeling.html">https://www.turtlediary.com/game/plant-cell-labeling.html</a>	
<a href="https://www.purposegames.com/game/2bde3fa5">https://www.purposegames.com/game/2bde3fa5</a>	

**Essential questions:**

Before starting the lesson, ask some questions to explore the background knowledge of students:

1. Are plants living things?
2. Living things are made of what?
3. Are plant and animal cells similar?
4. Do plant cells have a cell wall?
5. Compare a plant cell with a brick and explain how it helps in making a whole plant like a building.
6. Ask students to give a simple description of plant cell if they can.