LESSON PLAN

Subject: Science **Class:** 5

Topic: The Cell **Duration:** 40 minutes

Learning Objectives

By the end of the lesson, students will be able to:

1. Define a cell as the basic unit of life.
2. Identify the cell membrane, cytoplasm, and nucleus.
3. Label or construct a simple cell model.

Teaching Resources

- Cell model made from thermapol
- Flashcards and labels
- Digital presentation or interactive cell diagram

Teaching methods:

discussion, chalk and talk, demonstration

Initiation:

Show students pictures of plants and animals. Ask them what these living things have in common and what they are made of students will give mixed responses. Introduce the concept of cells as the basic building blocks of life.

Students observe the pictures and share their ideas.

Development:

The teacher explains the following cell structures:

Cell Membrane: Controls what enters and leaves the cell.It is just like the door of a cell.

Cytoplasm: A jelly-like substance where many cell activities occur.

Nucleus: Controls the activities of the cell.
Teacher asks: Do we have a brain? What does the brain do?
Students give responses. Then the teacher says that a cell also possesses a cell that controls its important activities

The teacher explains that plant and animal cells have some similarities and and also some differences

Differentiated Learning Activities:

The teacher will provide different activities and levels of support according to students' learning needs.

visual Learning Activity — See and Label

Task: Students observe a colorful cell diagram and label its parts.

Resources: Cell diagram, colored pencils, and word bank.

Assessment: Students correctly identify and label at least three cell structures.

Support: Provide a partially labelled diagram and picture clues.

Verbal Learning Activity:

Task: Students work in pairs to explain the functions of cell structures.

Resources: Cell-part flashcards and sentence starters.

Assessment: Students explain the functions of at least two cell structures.

Support: Provide sentence starters, such as “The nucleus controls…”

Challenge: Ask students to explain how the nucleus and cell membrane help the cell function.

Hands-On Learning Activity for kinesthetic learners:
(Build a Cell)

Task: Students use clay, play dough, or paper shapes to create a simple cell model and label its parts.

Resources: Clay, paper, glue, and labels.

Assessment: Students construct a model and identify at least three cell structures.

Recapitulation (5 Minutes)

Teacher share with students the following points:

1. What is a cell?
2. Which part controls the activities of the cell?
3. What is the function of the cell membrane?

Assessment (3 Minutes)

Give students an exit ticket containing the following questions:

1. Complete the sentence: The basic unit of life is the _____.
2. Which cell structure controls cell activities?

Homework :

Draw and label a plant or animal cell. Write one function for the cell membrane,