

# PM SHRI KENDRIYA VIDYALAYA NFC NAGAR GHATKESAR

## SUMMER HOLIDAY HOMEWORK

Subject: Science

Class: IX

- 1) Who discovered the cell?
- 2) Define a cell.
- 3) What is the cell membrane?
- 4) What is the function of the nucleus?
- 5) What is cytoplasm?
- 6) Name any two cell organelles.
- 7) Write any two differences between plant cell and animal cell.
- 8) What is diffusion?
- 9) What is osmosis? Give one example.
- 10) Differentiate between prokaryotic and eukaryotic cells.

### NAME ALL ORGANELLES AND THEIR FUNCTIONS

S. No.	Organelle	Function
1.	Cell Membrane	
2.	Cell Wall (Plant Cell)	
3.	Cytoplasm	
4.	Nucleus	
5.	Nucleolus	
6.	Mitochondria	
7.	Endoplasmic Reticulum (ER)	
8.	Ribosomes	
9.	Golgi Apparatus	
10.	Lysosomes	
11.	Vacuoles	
12.	Chloroplasts (Plant Cell)	

### ART INTEGRATION PROJECT WORK

Make 2D or 3D models of plant cell and animal cell.

Instructions:

- The models should be neat, creative and well-labelled.
- Use eco-friendly and easily available materials.
- Write a short note (5–6 lines) about each cell along with the model.
- Submit the models during the reopening of the school.