

The function of mitochondria is the site for respiration, reactions which yield energy for the cell.

5. NUCLEUS

This is a round or oval organelle suspended in the cytoplasm. The nucleus is made up of nucleolus and fluid called nucleoplasm. It's surrounded by a membrane called the nuclear membrane.

6. CYTOPLASM

This is jelly like substance made up of water and dissolved chemical substances. The cytoplasm is the site for many chemical reactions in the cell. Cell organelles such as the vacuoles, nucleus and mitochondria are suspended in the cytoplasm. The movement of cytoplasm is known as cytoplasmic stream.

7. RIBOSOMES

This is the site of protein synthesis.

poth have nucleus. Both have vacuoles, ribosomes and mitochonori Otesale.co.uk SIMILARITIES BETWEEN PLANT AND ANIMAL CELL

- Both have nucleus.

Differences between plant celland

Par cell Dade	Animal cell
Has a cell wall	No cell wall
Has chloroplast	Lacks chloroplast
Have definite shape	Have no definite shape
Has a large permanent vacuole	Has small temporary vacuole
They are normally large	They are usually smaller
Nucleus is peripherally located	Nucleus is centrally located
They store oil, proteins, starch	They store fats and glycogen

CELL DIFFERENTIATION

- Cells have different functions and features that make them better suited to carry out these functions. This is called cell differentiation.
- Most living things are made up of many structurally and physiologically adapted different kinds of cells. •
- These cells perform specific function and this is referred to as cell specialization. •
- Cell differentiation refers to the way cells are adapted so that they can carry out function efficiently. •

TISSUE

A tissue is a group of similar cells performing the same function. Basically there are two types of tissue. Animal tissue e.g. epithelial tissue, muscular tissue, blood tissue, nerve tissue, skin tissue. Plant tissue e.g. meristematic tissue, parenchyma tissue, collenchyma tissue, vascular tissue (xylem tissue, phloem tissue).