

Making 3D Cell Models

Background Information

Cells are the basic units of all living organisms. Most cells are composed of small internal structures called organelles that perform particular functions. For example, the nucleus is the controlling centre of the cell and contains the hereditary material called DNA.

Plant cells differ from animal cells in that plant cells contain chloroplasts containing green chlorophyll, a cell wall outside of the cell membrane and larger vacuoles.

Your Task

You are to make 3-dimensional cell models of a plant cell and an animal cell. Label the parts such as cell membrane, cytoplasm, nucleus, nucleolus, mitochondrion, chloroplast, vacuole, endoplasmic reticulum, ribosome and golgi body.

What You Need

Materials supplied include cardboard, paper, scissors, glue, foam, paint, paintbrushes, coloured pens, toothpicks and different coloured plasticine or play dough.