## Rationale

Cells are the most basic form of life. In this unit we explore how differences between types of cells enables them to carry out specific functions within the organism. These are known as specialised cells. For an organism to grow, cells must divide two new identical cells. Cells are grouped into tissues, organs, organ systems and organisms. You will also learn about diffusion.

real it about ait tusion.		
Diagrams	Keywords	Definitions
Bocterial cells are celled prokaryotic cells.  Cell ment A single boop of druk  Prokaryotic cell  Prokaryotic cell	Eukaryotic Prokaryotic	Cells that have a nucleus, like animal and plant cells.  Cells that don't have a nucleus, like bacteria.
Animal cell  Nucleus  Cytoplasm  Cell membrane  Mitochondria	Nucleus  Cell Membrane  Cytoplasm  Mitochondria Ribosome	The control centre of the cell, which contains DNA. The outer barrier of the cell, which allows substances to enter ands leave the cell. A jelly-like substance where chemical reactions occur. Where energy is released inside the cell. Where proteins are made.
Plant cell  Vacuole  Cell wall Chloroplasts	Vacuole Chloroplast Cell wall	Contains sugar and salt solutions, it helps to give the cell support. Contains chlorophyll which enables plants to photosynthesise. Outer layer of a plant cell, it provides structure and support.
	Differentiation Specialised Flagellum Cilia Diffusion	Changes occurring to cells to make them specialised. Cells that are adapted to enable them to carry out specific functions. A tail-like structure. Tiny hair-like structures.  Movement of a substance from a high to a
High Low	Concentration gradient	low concentration. When particles move from a high to a low concentration.
Magnification= eyepiece x objective	Microscope  Magnification Resolution	A piece of equipment that magnifies objects. The process of enlarging an object. How clearly you can see an image.