Qualification Unit

This unit forms part of a regulated qualification.

Unit Title: Cells

Unit Reference Number: A/618/3220

Level: Level Two

Credit Value: Three (3)

Minimum Guided Learning Hours: 24

Learning Outcome (The Learner will):	Assessment Criterion (The Learner can):
1. Know the differences between eukaryotic and prokaryotic cells	1.1 Describe the differences between eukaryotic and prokaryotic cells
2. Know the structure and function of cells	2.1 Label the main structures of animal cells including: a) Cell membrane b) Cytoplasm c) Nucleus d) Mitochondria e) Ribosomes
	2.2 Label the main structures of plant cells including: a) Chloroplasts b) Vacuole c) Cell membrane d) Cytoplasm e) Nucleus f) Mitochondria g) Cell wall
	2.3 Describe the function of each of these components

	2.4	Explain how the structure of different cells relates to their function: a) Sperm cells, nerve cells and muscle cells in animals b) Root hair cells, xylem and phloem cells in plants
	2.5	Define stem cells and discuss their use
3. Know about cell transport	3.1	Describe the different types of cell transport: a) Active transport b) Diffusion c) Osmosis
	3.2	Explain how different factors affect the rate of diffusion
4. Know about cellular respiration	4.1	Define respiration
	4.2	Explain the need for respiration
	4.3	Know the word and chemical equations for aerobic respiration
	4.4	Compare aerobic and anaerobic respiration
	4.5	Explain the changing demands of respiration during exercise
	4.6	Explain how lactic acid is removed