

Meadowhead School - BTEC L3 Applied Science/ Forensic and Criminal Investigation 2024

Cells

Task:

- Research the different types of microscopes used by scientists today. Compare and contrast how they form images and for each one describe the advantages and disadvantages they have.
- Find out the differences between eukaryotic and prokaryotic cells. List the key organelles cells contain and summarise their functions.

Grade criteria	Evidence	Achieved
<b>Pass</b> Describe the key structures and functions of a eukaryotic and prokaryotic cell	List the key <b>organelles</b> found in each type of cell (at least 8).	
	Summarise the <b>functions</b> of each organelle clearly. Organelles must include nucleus, mitochondria, cell membrane, cell wall, vacuole and ribosomes.	
	This can be completed as a table.	
<b>Merit</b> Assess the differences between eukaryotic and prokaryotic cells	State clearly the <b>differences</b> between eukaryotic and prokaryotic cells.	
	Refer to types of organelles present and cell size.	
	Diagrams should be included to support analysis.	
<b>Distinction</b> Evaluate the similarities and differences between light and electron microscopes	Describe clearly how <b>light</b> and <b>electron</b> microscopes form images.	
	Compare and contrast both types referring to <b>resolution</b> and <b>magnification</b> .	
	Diagrams should be included to support evaluation.	

Name: \_\_\_\_\_

Grade achieved: \_\_\_\_\_

Assessor comments: