

Meadowhead School - BTEC L3 Applied Science/ Forensic and Criminal Investigation 2022

Cells - Summer Task

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

Name: _____

Grade achieved:

Assessor comments:

[illegible]