



Attainment Band :	B1 Cell Biology (AQA)
	Knowledge and Understanding
Yellow Plus/ Yellow	<p>Carry out order of magnitude calculations when comparing cell size; calculate with numbers in standard form.</p> <p>Explain limitations of light microscopy and advantages of electron microscopy.</p> <p>Explain why scientists have now separated organisms into three domains using evidence from chemical analysis.</p> <p>Describe the events of the cell cycle and explain the synthesis of new sub-cellular components and DNA.</p> <p>Understand size and scale in the components of organ systems.</p> <p>Evaluate scientific and ethical issues involved with stem cell therapies.</p> <p>Use symbol equations for aerobic and anaerobic respiration and be able to compare the two processes.</p>
Blue	<p>Understand the size and scale of cells and be able to use and convert units.</p> <p>Calculate the magnification of a light or electron micrograph.</p> <p>Describe the differences between eukaryotic and prokaryotic cells.</p> <p>Describe how chromosomes double their DNA and are pulled to opposite ends of the cell, before the cytoplasm divides, during mitosis.</p> <p>Explain the importance of differentiation and explain how cells are specialised for their functions.</p> <p>Understand the potential of stem cell therapies.</p> <p>Use word equations to describe the processes of aerobic and anaerobic respiration.</p>
Green	<p>Describe the functions of the sub-cellular structures found in eukaryotic cells.</p> <p>Calculate magnification used by a light microscope using eyepiece and objective lens magnifications.</p> <p>Describe the structure of a prokaryotic cell.</p> <p>Recall that cells must divide for growth and replacement of cells.</p> <p>Recall that organism development is based on cell division and cell specialisation.</p> <p>Recall where stem cells are found.</p> <p>Recall that organisms can respire with oxygen (aerobic respiration) or without oxygen (anaerobic respiration).</p>
White	<p>Some elements of the above have been achieved</p>