



Cotswold Edge Sixth Form



Subject:	Biology @ BGS	Assessment Point 1 - practical endorsement skills
Title of the project:	Researching microscopes and evaluating their use	
Due date:	First lesson back September 2018	
Learning skills and their place in the specification	To demonstrate knowledge and understanding of scientific ideas and processes (assessment objective 1).	
Specification link	2.1.1 Cell structure.	
Tasks set	<p>Research and produce an information sheet on each of four types of microscope:</p> <ol style="list-style-type: none"> 1. light microscope 2. transmission electron microscope 3. scanning electron microscope 4. laser scanning confocal microscope 	
How this links to the exam specification	<p>The information you will produce will be directly relevant to the following learning outcomes:</p> <p>LO(a). The use of microscopy to observe and investigate different types of cell and cell structure in a range of eukaryotic organisms. To include an appreciation of the images produced by a range of microscopes; light microscope, transmission electron microscope, scanning electron microscope and laser scanning confocal microscope.</p> <p>LO(b). The difference between magnification and resolution. To include an appreciation of the differences in resolution and magnification that can be achieved by a light microscope, a transmission electron microscope and a scanning electron microscope.</p>	
How to complete the task:	<p>This task will test your research skills and will require you to use the internet as well as resources in the study centre to prepare your information sheets.</p> <p>Success criteria:</p> <ul style="list-style-type: none"> • Description of how the microscope works. • The difference between magnification and resolution. • A comparison of the magnification and resolution of each type of microscope. • An example of the image produced by each type of microscope. • Reference sources using the Harvard system. 	

Resources or links	This is a research task for you to demonstrate your ability to find suitable resources using study centre, libraries and the internet.
Staff contact and email address:	<p>Mr Titley atitley@brimsham.com</p> <p>Mrs Brown sbrown@brimsham.com</p>
Number of learning hours it will take to complete	Minimum 10 hours