

Subject	Year	Term
Biology	12	1
Topic		
Cell Structure		
Content (Intent)		
<b>Prior Learning (Topic) Year 9 – B1 Cell Biology</b>		
<ul style="list-style-type: none"> <li>• Microscopy – making slides, calculating magnification, use of eye piece graticules and stage micrometers</li> <li>• Use of ultracentrifugation to separate cell organelles</li> <li>• Eukaryotic cell structure, to include structure and function of organelles.</li> <li>• Prokaryotic cell structure</li> <li>• Binary fission in prokaryotes</li> <li>• Replication of viruses</li> </ul>		
<b>Future Learning (Topic) All other A Level topics</b>		
How will knowledge and skills be taught? (Implementation)	How will your understanding be assessed & recorded (Impact)	
<p><b>Demos</b> Demonstrations of all practicals</p> <p><b>Practical work</b> Making a slide Use of eyepiece graticule and stage micrometer to take measurements under the microscope Use of ultracentrifugation to separate cell organelles</p> <p><b>Written</b> Class notes Past paper questions in class Past paper questions in homeworks</p>	<p>- 2 x standard homeworks (Grade given. Written &amp; verbal feedback. Response expected.)</p> <p>-1 x end of topic test with the Transport Across Membranes topic (Level given. Verbal feedback to class and individuals.)</p>	
<b>How can parents help at home?</b>		
<p>Look at the topic specific resources on the VLE</p> <p>Use appropriate youtube channels: cognito, freesciencelessons, Crash Course Biology.</p> <p>Encourage students to use the textbook issued.</p> <p>Take an interest! Ask your children what they have learnt and be curious about their learning.</p>		
<b>Helpful further reading/discussion</b>		

<b>Reading</b>	<b>Vocabulary Lists</b>	<b>Careers Links</b>
<p>New Scientist            Biological Science Review            Magazine            The Biologist Magazine –            Royal Society of Biology            Royal Society of Biology blog            Science and Nature            Magazine</p>	<p><i>Magnification, resolution,            cell membrane, nucleus,            mitochondrion, chloroplast,            cytoplasm, endoplasmic            reticulum, ribosome,            vacuole, cell wall,            prokaryote, eukaryote,            binary fission.</i></p>	<p>Biochemistry            Biomedical science            Biological sciences            Cell biologist            Medicine            Veterinary medicine            Bioveterinary science            Nursing            Midwifery            Healthcare science            Zoology            Radiology            Ecology</p>