

Subject	Year	Term
Biology	12	2
Topic		
Mass Transport in Mammals		
Content (Intent)		
<b>Prior Learning (Topic) Year 9 – B2a</b>		
<ul style="list-style-type: none"> <li>• Blood circulation in mammals</li> <li>• Heart structure and function</li> <li>• Cardiac cycle: pressure and volume changes</li> <li>• Circulatory system: blood vessel structure &amp; function</li> <li>• Tissue fluid</li> <li>• Investigating human pulse rate</li> <li>• CVD (CHD) and risk factors</li> </ul>		
<b>Future Learning (Topic) Year 13 – Sensing &amp; responding, internal &amp; external.</b>		
How will knowledge and skills be taught? (Implementation)	How will your understanding be assessed & recorded (Impact)	
<p><i>Demos</i> Blood pressure cuff (optional)</p> <p><i>Practical work</i> Required practical 5 – dissection of heart (or plant transport system)</p> <p><i>Written</i> Class notes Past paper questions in class Past paper questions in homeworks Write up of required practical 5.</p>	<p>- 4 x standard homeworks (Grade given. Written &amp; verbal feedback. Response expected.)</p> <p>-1 x end of topic test combined with the gas exchange topic (Grade given. Written &amp; verbal feedback to class and individuals.)</p>	
How can parents help at home?		
<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>		
Helpful further reading/discussion		
<p><b>Reading</b> New Scientist Biological Science Review Magazine</p>	<p><b>Vocabulary Lists</b> <i>Artery, vein, capillary, arteriole, venule, ventricle, atrium, aorta, vena cava,</i></p>	<p><b>Careers Links</b> Biochemistry Biomedical science Biological sciences</p>

<p>The Biologist Magazine – Royal Society of Biology Royal Society of Biology blog The Body: A guide for occupants – Bill Bryson</p>	<p><i>pulmonary artery, pulmonary vein, atrio- ventricular valve, semi-lunar valve, systole, diastole.</i></p>	<p>Medicine Veterinary medicine Bioveterinary science Nursing Midwifery Healthcare science Zoology Radiology Physiotherapy Occupational health</p>
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