

Subject	Year	Term
Science	9	3
Topic		
B2a Organisation (Transport)		
Content (Intent)		
<p>Prior Learning: KS3 national curriculum and 7B1 the basics of life</p> <ul style="list-style-type: none"> Plant tissues and organs Stomata and meristem tissue Water uptake, transport & transpiration Transpiration experiment Phloem and translocation (Hw 1) The Lungs Circulatory system Heart structure & pacemakers Blood 		
<p>Future Learning: KS4 national curriculum and topic B2a</p>		
How will knowledge and skills be taught? (Implementation)	How will your understanding be assessed & recorded (Impact)	
<p>Demos: whoosh bottle and screaming jelly baby for respiration.</p> <p>Practical work: heart & lung dissection with identification of key anatomy. Use of potometer to measure transpiration in plants.</p> <p>Written: Notes and completed worksheets in exercise books. Written explanation for evaluating the use of potometers. Explanation of Movement of water in xylem and sugar solutions in the phloem.</p>	<p>- 2 x Standard Homework Tasks: Level given. Written feedback. Response expected.</p> <p>-1 x End of Topic Test: Level given. Verbal feedback to class and individuals.</p>	
How can parents help at home?		
<p>Look at B2a topic resources on the VLE and use the CGP KS4 Study Guide provided.</p> <p>Use appropriate YouTube channels [Cognito, PrimroseKitten, KhanAcademy, FuseSchool, AmoebaSisters, Freesciencelessons] and documentaries [TV series: DNA, TED Talk: How we discovered DNA, Netflix: Breaking Boundaries The Science of Our Planet & Our Planet]</p> <p>Take an interest! Be curious and ask your child about their learning.</p>		
Helpful further reading/discussion		
<p>Reading</p> <p>Horrible science series</p> <p>BBC– Incredible human journey</p> <p>How the body works. The facts simply explained</p> <p>How to grow a human</p>	<p>Vocabulary Lists</p> <p><i>Xylem, Phloem, potometer, transpiration, stomata, waxy cuticle, palisade mesophyll, Heart, Lung, atria, ventricle, AV valve, semi-lunar valve, trachea, alveoli, diffusion gradient.</i></p>	<p>Careers Links</p> <p>Medicine (doctor/ nurse)</p> <p>Physiotherapy general/ sports</p> <p>Personal training</p> <p>Bontology</p>