

Subject	Year	Term
Science	9	3
Topic		
B2a Organisation (Transport)		
Content (Intent)		
Prior Learning: KS3 national curriculum and 7B1 the basics of life		
1. Plant tissues and organs 2. Stomata and meristem tissue 3. Water uptake, transport & transpiration 4. Transpiration experiment 5. Phloem and translocation 6. The Lungs 7. Circulatory system 8. Heart structure & pacemakers 9. Blood & Blood vessels		
Future Learning: KS4 national curriculum and topic B2a		
How will knowledge and skills be taught? (Implementation)	How will your understanding be assessed & recorded (Impact)	
Demos: Screaming jelly baby for respiration. Optional: whoosh bottle. Practical work: heart & lung dissection with identification of key anatomy. Use of potometer to measure transpiration in plants. 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.	- 2 x Standard Homework Tasks: Level given. Written feedback. Response expected. -1 x End of Topic Test: Level given. Verbal feedback to class and individuals.	
How can parents help at home?		
Look at B2a topic resources on the VLE and use the CGP KS4 Study Guide provided. 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] Take an interest! Be curious and ask your child about their learning.		
Helpful further reading/discussion		
Reading Horrible science series BBC– Incredible human journey How the body works. The facts simply explained How to grow a human	Vocabulary Lists Xylem, Phloem, potometer, transpiration, stomata, waxy cuticle, palisade mesophyll, Heart, Lung, atria, ventricle, AV valve, semi-lunar valve, trachea, alveoli, diffusion gradient.	Careers Links Medicine (doctor/ nurse) Physiotherapy general/ sports Personal training Bontany