

Year 10 Combined Science Biology

Learning Programme 1

The LORIC skill focus for this LP is: LEADERSHIP The Moral Virtues focus for this LP are: COURAGE and HUMILITY. Courage - Acting with bravery and overcoming fears. Humility - Having a modest view of oneself. What will I be learning about in this Learning Programme? How cells are structured and how to observe these using microscopes as well stem cells and the cell cycle. Where have I seen this learning before? You have learnt about cell structure and microscopes in KS3. What could I use it for? You will use this knowledge in A-level Biology and Applied Science BTEC.		Literacy: - Capital letters must be used at the start of sentences and for the first letter of proper nouns - Full stops must be used at the end of a sentence - Question marks must be used at the end of a question - Apostrophes should only be used for possession or omission - Days of the week and months must be spelled correctly - Key words must be spelled correctly
In LP1.1, I will know: the similarities and differences between plant and animal cells.	31/08/26 - (WK 1) Frayer Model Word resolution	Homework Complete the Sparx science task set online.
In LP1.2, I will know: the principles of light and electron microscopes; how to complete Required Practical 1: plant and animal cells and record scale magnification.	07/09/26 - (WK 2) Frayer Model Word magnification	Homework Complete the Sparx science task set online.
In LP1.3, I will know: the similarities and differences between prokaryotic and eukaryotic cells. Extended Task.	14/09/26 - (WK 1) Frayer Model Word eukaryotic	Homework Complete the Sparx science task set online.
In LP1.4, I will know: the functions and adaptations of specialised cells; how to compare stem cells to specialised cells. ☒	21/09/26 - (WK 2) Frayer Model Word differentiation	Homework Complete the Sparx science task set online.
In LP1.5, I will know: diffusion and active transport and explain the factors affecting diffusion.	28/09/26 - (WK 1) Frayer Model Word passive	Homework Complete the Sparx science task set online.
In LP1.6, I will know: the effect of dilute and concentrated solutions on animal cells; how to carry out Required Practical 2: Osmosis. Extended Task.	05/10/26 - (WK 2) Frayer Model Word osmosis	Homework Complete the Sparx science task set online.
In LP1.7, I will know: the importance of the cell cycle and describe each of the stages involved including mitosis.	12/10/26 - (WK 1) Frayer Model Word mitosis	Homework Complete the Sparx science task set online.
Resources to support learning: Knowledge Organiser, Synergy, use YouTube to look up videos on AQA Trilogy microscope, cells and cell cycle. BBC Bitesize AQA Trilogy Cells and Microscopes.		
FEET Award Challenge for this Learning Programme: LP1 Year 10 Research a science career of your choice and create a profile of the skills and qualifications you would need to work in that role.		

