

The Curriculum and Approaches to Learning		Key Programmes / Competitions
To cultivate the joy of learning Science by developing students' knowledge, skills and attitudes in scientific-thinking through a well-designed curriculum that focuses on scientific inquiry and authentic learning. To prepare students for a life-long passion in learning Science and enable them to innovate and contribute to a technologically-driven society.		Selected school competitions and enrichment programmes.
Term / Week	Learning Experiences (Chapter, Activity)	Remarks
1/ 2-3 1/ 4-6 1/ 7-8 1/ 9-10	2022 Dec Holiday: Molecular Genetics Chapter 11: The Nervous System Chapter 12: The Human Eye Chapter 13: Hormones Chapter 14: Reproduction in Plants March Holiday HW: Reproduction in Humans (Structures & Functions) [W2] Practical 1: Dissection of sheep's heart [W9] Practical 2: Year 2022 (plant reproduction & <u>syringe</u> skills)	WA1 (Wk9): Chapter 6 - Nutrition in Humans, Chapter 8 - Transport In Humans, Chapters 11 to 13
2/ 1-2 2/ 3 2/ 4-7 2/ 8-9	Chapter 15: Reproduction in Humans Chapter 17: Molecular Genetics Chapter 16: Heredity (spinning activity from 2013 practical) Chapter 18: Ecology June Holiday HW: Our Impact on the Ecosystem (SLS) + Yearly paper 2018 [W7] Practical 3: Year 2021 (test for <u>starch</u> , enzyme concentration on rate of product formation, osmosis – planning) <u>June Holiday:</u> Practical 4: Year 2017 (osmosis in potato cells, <u>drawing</u> & <u>magnification</u>) Practical 5: Year 2016 (test for starch & <u>reducing sugars</u> & <u>gases</u> , drawing & effect of temp on enzyme activity in potato)	WA2 (Wk9): Chapter 7 - Nutrition In Plants, Chapter 9 - Transport In Plants, Chapters 14, 15 and 17
3/1-2	Chapter 19: Our Impact on the Ecosystem	

3/1-10	<p>Revision and Prelim</p> <ul style="list-style-type: none"> - Yearly paper 2019 to 2022 <p>[W3] Practical 6: Year 2010 (test for starch & RS & <u>protein</u>, energy content/<u>burn</u> biscuits, drawing & magnification)</p> <p>[W6] Practical 7: Year 2015 (enzyme/pH change in milk)</p> <p>[W8] Practical 8: Year 2019 (test for starch & reducing sugars, enzymes/transport in plants) + 2018 planning question</p>	
4/1-10	Revision, Prelim and GCE O-Level Exam	