Biology Paper 1 Triple Science Revision Schedule (**Higher Tier in Bold**)

	Topic	CGP page	CGP Summary Qs		Primrose Kitten Revision Workbook & Video Page		Seneca Topic Current	Seneca Topic Recap	Additional Resources or activities (If hyperlinks do not work, copy and paste into the search bar)
1. Cell Biology	Eukaryotes Cell Structure: Plant Cells	11		2			1.1.1	1.1.2	BBC Bitesize –Plant and animal cell structures
	Eukaryotes Cell Structure: Animal Cells	11		1,3			1.1.3	Standard Form	
	Prokaryotes Cell Structure: Bacterial Cells	11		4	Complete Checklists Page 25	Access explanation videos Page 25 Answer Qs page 27 & 28	1.1.4		
	Cell Specialisation	14		7, 8			1.1.6 - 7		
	Cell Differentiation	14		6 - 12			1.1.5		Brain-dump: Write down everything you remember about cells - no notes!
	Using Microsopes	12-13		7			1.1.8 - 9		
	Culturing Microorganisms	17		17-18					
	Required Practical 1: Investigating cells	13		5			Magnification		
	Required Practical 2: Effect of antiseptics or antibiotics on bacterial growth	17-18	Page 26	14					
	Cell Division: Chromosomes and mitosis	15		6,7,8,9,10, 11	Complete Checklists Page 26	Access explanation videos Page 26 Answer Qs Page 28	1.2.1	1.1.9	BBC Bitesize –Stages of mitosis or cell division
	Stem Cells	19		15-16			1.2.2	1.1.5	Wellcome Trust –Medical uses of stem cells
	Transport in Cells: Diffusion	20		17-18			1.3.1 - 2	1.1.3	Animation: How Diffusion Works
	Osmosis	21		19			1.3.3	Maths 3.3.1, 3.3.2	Animation: How Osmosis Works
	Required Prac. 3: Investigating osmosis								Osmosis and diffusion: summarise simliarities and differences
	Active transport	22		20			1.3.4	1.1.1	BBC Bitesize – Movement across cell membranes
	Exchange surfaces and substances	23-25		21 - 23			surface area : volume		Primrose Kitten Workbook Page 17: Calculate Surface area of a cuboid
2. Organisation	Organisation: Cells to organ systems	27		1, 2			2.1.1	1.1.4	
	The Human digestive system	28		7, 9	Complete Checklists Page 29	Access explanation videos Page 29 Answer Qs 1-14 Page 33	2.1.2		BBC Bitesize: Digestive system Digestion of egg sandwich video
	Required Practical 4: Food Tests	32		10					
	Enzymes	28		3, 4, 5			2.2.1	1.1.6 - 7	Can enzymes be killed? BBC Bitesize: Enzymes and active sites
	Digestive Enzymes	30-31		8, 10			2.2.2 - 3		Digestion experiments
	Required Prac. 5: Effect of pH on Enzymes	29		6					
	Human lungs and Respiratory System	33		11, 12	Complete Checklists Page 30	Access Videos Page 30 Answer Qs 15 - 29, Page 33-35	2.3.4	1.3.1	Create a flow diagram of blood going in and out of the heart and lungs
	Circulatory System: The Heart	34		13 - 16			2.3.3		Practical Biology: Looking at a heart
	Circulatory System: The Blood Vessels	35		17			2.3.1.- 2	1.3.1	The blood vessels
	Circulatory System: The Blood	36		18			2.3.5 - 6	1.1.5	
	Cardiovascular disease: CHD	37-38		19, 20, 21	Page 31	Video Page 31	2.4.1 - 4	2.2.2-3	BBC Bitesize: Coronary heart disease
	Health Issues	39		22		Page 35, Q31	Maths 6.2 - 3 Charts, diagrams and data sets		
	Risk factors and Health	40		23					
	Cancer	41		24	31	32-34	2.4.5	1.2.1	Cell division and cancer
	Plant Tissues	42		25, 26	Page 31 & 32	35-37	2.5.1-2	Calculating Mean	Youtube video: Transport in Plant - Transpiration - GCSE Biology (9-1)
	Plant Organ systems	43-44		27 - 31		38-41	2.5.2-5		Stomata: Leaf structure, stomata and carbon dioxide video clip
3. Infection & Response	Communicable Disease	46		2,3,4		Page 39, Q2,9	3.1.2		
	Viral Diseases	47		2,3,4		Page 39, Q2,9			Youtube video: The Story of Ebola
	Bacterial Diseases	48		1		Q3,8	3.1.3	1.1.4	Youtube video: The Story of Cholera
	Fungal Diseases	47				Q5	3.1.1		
	Protist Diseases			5	Complete Checklists Page 36, 37 & 38	Q4,18	3.1.1		Parasitic Protists – Bill Gates: Mosquitos, malaria and education
	Human Defense System	49	Page 56	6,7		Q19-25	3.1.4-5		White blood cells Defending against infection activity
	Vaccination	50		8,9		Q26			Youtube video: How we conquered the deadly smallpox virus
	Antibiotics and Painkillers	51		10		Q27-29	3.1.6		
	Developments of New Drugs	52		11,12		Q30-33	3.1.7-8	2.4.1	Youtube video: GCSE Biology Revision: Drug Testing
	Monoclonal antibodies	53-54		15-17			3.2		About monoclonal antibodies
	Plant disease	55		18-20			3.3		Plant defences

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4. Bioenergetics	Photosynthesis	57-60	Page 57	1 - 4	Complete Checklists Page 41 & 42	Page 44, Q1-10	4.1.1-2	Maths topic	Maths 3.5.2 Rate of Change
	Limiting Factors - Higher tier only	59		7 - 11		Q13-14			BBC Bitesize – Photosynthesis in plant leaves
	Req. Prac.6 Light Intensity and Photosynthesis	59		10		Q12	4.1.3		What happens to the light intensity in Winter?
	Uses of Glucose	57		5-6					
	Aerobic Respiration	61-62		14 - 18		Q15-17	4.2.1	2.1.2	BBC Bitesize – Aerobic respiration
	Anaerobic Respiration	62		19-21		Q18-21	4.2.2		BBC Bitesize – Aerobic and anaerobic respiration
	Response to Exercise	63		22-23				2.3.4	
	Oxygen Debt - Higher tier only	**63**		23-24		Q22			
	Metabolism	61		17		Q23-35			Review risk factors of an Unhealthy diet