## KS4 Biology Homework AQA Higher Tier Separate Science

Create a set of revision notes for the topic that is stated.

Your teacher will provide you with an exam question on that topic during lesson when the homework is complete.

Date set	Topic	CGP Revision guide page	Evidence
		number	
B1 – C	Cell Biology		T
	Cells	11	
	Microscopy	12 & 13	
	Cell differentiation and specialisation	14	
	Chromosomes and mitosis	15	
	Binary Fission	16	
	Culturing microorganisms	17	
	Stem cells	19	
	Diffusion	20	
	Osmosis	21	
	Active transport	22	
	Exchanging surfaces	23	
	Exchanging substances	24 & 25	
B2 - C	rganisation	•	
	Cell organisation	27	
	Enzymes and enzymatic reactions	28 & 29	
	Enzymes and digestion	30 & 31	
	Food tests	32	
	The lungs	33	
	The circulatory system	34-36	
	Cardiovascular disease	37 & 38	
	Health and disease	39	
	Risk factors for non-communicable diseases	40	
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	Cancer	41	
	Plant cell organisation	42	
	Transpiration and translocation	43 & 44	
B3 -	Infection and response		
	Communicable disease	46-48	
	Fighting disease	49-51	
	Developing drugs	52	
	Monoclonal antibodies	53 & 54	
	Plant disease and defences	55	
B4 - E	Bioenergetics		
	Photosynthesis and limiting factors	57	
	The rate of photosynthesis	58	
	Respiration and metabolism	61	
	Aerobic and anaerobic respiration	62	
	Exercise	63	
B5 –	Homeostasis and response		
	Homeostasis	65	
	The nervous system	66	
	Synapses and reflexes	67	
	Reaction time	68	
	The brain	69	
	The eye	70	
	Correcting vision defects	71	
	Controlling body temperature	72	
	The endocrine system	73	
	Controlling blood sugar	74	
	The kidneys and kidney failure	75 & 76	
	Puberty and the menstrual cycle	77	
	Controlling fertility	78 & 79	
	Adrenaline and thyroxine	80	
	Plant hormones	81	
	Commercial use of plant hormones	82	
B6 –	Inheritance, variation and evolution		
	DNA	84	

	Structure of DNA and protein synthesis	85
	Mutations	86
	Reproduction	87 & 89
	Meiosis	88
	X and Y chromosomes	90
	Genetic diagrams	91 & 92
	Inherited disorders	93
	The work of Mendel	94
	Variation	95
	Evolution	96 & 97
	Selective breeding	98
	Genetic engineering	99
	Cloning	100
	Fossils	101
	Speciation	102
	Antibiotic- resistant bacteria	103
	Classification	104
B7 - I	Ecology	
	Competition	106
	Abiotic and biotic factors	107
	Adaptations	108
	Food chains	109
	Using quadrats and transects	110 & 111
	Environmental Change & The water cycle	112
	The carbon cycle	113
	Decay	114 & 115
	Biodiversity and waste management	116
	Global warming	117
	Deforestation and land use	118
	Maintaining ecosystems and biodiversity	119
	Trophic levels	120
	Pyramids of biomass & biomass transfer	121 & 122
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	Food security and farming	123
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If you do not have the CPG book then you can find similar material on Kerboodle and Bitesize.