GCSE AQA SPECIFICATION

	Outline	KS3 topics revisited
	Lifestyle and non-communicable diseases	Heart, blood and blood vessels
Y10 Half Term 1	Health issues	Coronary heart disease
	Lifestyle and non- communicable disease	 The digestive system and
	Cancer x2	enzymes
	Cell division	 Nutrition and digestion
	DNA, chromosomes and genes	Cell structure
	Cell cycle	 Organ systems and principles of
	Stem cells	hierarchy Movement, breathing
	Therapeutic cloning	and respiration
	Plant organisation	Organ systems and principles of
	Plant organs	hierarchy
	Xylem and phloem	Using a microscope
	Leaf and transpiration	Photosynthesis and
	Observing a leaf using a microscope	interdependence
	Communicable diseases	Cell transport
Y10 Half	Infectious disease	 Eukaryotes and prokaryotes
Term 2	Viral Diseases	Lakaryotes and prokaryotes
	Bacterial diseases	
	Culturing microorganisms	
	Investigate the effect of antiseptics or antibiotics on	
	bacterial growth – practical	
	Fungal diseases	
	Protist diseases	
	Defence Mechanisms	• Cells
	Human defence systems	 The circulatory system
Y10 Half Term 3	Immune system	 Photosynthesis and
	Vaccinations	interdependence
	Antibiotics and painkillers	·
	Drug development	
	Producing monoclonal antibodies	
	Uses of monoclonal antibodies	
	Plant diseases	
	Plant defences	
Y10 Half Term 4	Bioenergetics	 Photosynthesis and
	Photosynthesis reaction	interdependence
	Effect of light intensity on rate photosynthesis – practical	 Cell transport
	Uses of glucose	 Movement, breathing and
	Aerobic and anaerobic respiration	respiration
	Responses to exercise	 Nutrition and digestion
	Metabolism	 The digestive system and
	Investigate the effect of pH on the rate of reaction of	enzymes
	amylase enzyme – practical	 The circulatory system
	Homeostasis	 Organ systems and principles of
	Homeostasis Overview	hierarchy
Y10 Half Term 5	Structure & function nerves (x2)	 Cell transport
	Effect of a factor on human reaction time – practical	
	The brain	
	The eye x2	
	Control of body temperature	
Y10 Half	Human endocrine system	 Organ systems and principles of
TO Hall	Control of glucose concentration	hierarchy
Term 6	Diabetes	,

GCSE AQA SPECIFICATION

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Y11 Half Term 1	Diabetes (treatment) Maintaining water & nitrogen balance Hormones in reproduction Contraception Hormones to treat fertility Negative feedback Plant Hormones Plant Control & coordination Investigate the effect of light or gravity on the growth of newly germinated seedlings – practical Use of plant hormones Inheritance Sexual and asexual reproduction Meiosis DNA & the genome DNA structure	The digestive system and enzymes Cell transport Reproduction The circulatory system Photosynthesis and interdependence Reproduction Cell structure
	Mutations Genetic inheritance & Sex determination Inherited disorders (x2) Variation	Variation and inheritance
Y11 Half Term 2	Variation Variation Natural selection & resistance Theory of evolution Speciation Evidence for evolution Fossils & Extinction Classification Evolutionary trees	variation and inheritance
Y11 Half Term 3	Genetics & Evolution Understanding of genetics Selective breeding Genetic engineering (x2) Cloning (x2) Adaptations & Ecology Communities Abiotic factors & Biotic factors Adaptations Levels of organisation Measure the population size of a common species in a habitat – practical	 Variation and inheritance Genetically modified organisms Photosynthesis and interdependence Movement, breathing and respiration
Y11 Half Term 4	Adaptations & Ecology How materials are cycled Decomposition Biodiversity Impact of environmental change Biodiversity Waste management	Photosynthesis and interdependence
	Land use & Deforestation Global warming Maintaining biodiversity Trophic levels Food security	