

BIOLOGY

	Autumn Term 1	Autumn Term 2	Spring Term 1	Spring Term 2	Summer Term 1	Summer Term 2
	Topics	Topics	Topics	Topics	Topics	Topics
Year 7	On separate document					
Year 8						
Year 9	1. Cell types 2. Microscopes	1. Cell division 2. Stem cells 3. Tissues and organs	1. Diffusion, osmosis and active transport	1. Surface area and volume 2. Digestion and enzymes	1. Digestion and enzymes	1. Adaptations
Year 10 (separate)	1. Lungs 2. Heart and circulation 3. Heart disease 4. Health	1. Cancer 2. Respiration 3. Exercise 4. Photosynthesis	1. Transport in plants 2. Infectious disease 3. Drugs 4. Antibodies (start)	1. Plant disease 2. Homeostasis 3. Nervous system 4. Eye 5. Thermoregulation	1. Ecology	1. Human impact
Year 10 (Dual)	1. Lungs 2. Heart and circulation 3. Heart disease	1. Health 2. Cancer 3. Respiration 4. Exercise	1. Plant tissues 2. Photosynthesis	1. Transport in plants 2. Infectious disease	1. Infectious disease continued 2. Ecology	1. Human impact
Year 11	1. Nervous system 2. Brain 3. Eye 4. Control of body temperature	1. Endocrine system 2. Control of blood sugar 3. Kidney 4. Menstrual cycle and contraception / IVF	1. Plant hormones 2. Sexual and asexual reproduction 3. Meiosis 4. DNA 5. Heredity / sex	1. Variation and evolution and selective breeding 2. Genetic engineering / cloning 3. Evidence for evolution	1. Classification and phylogeny 2. Complete topic 7 3. Revision	
Year 12	A1) Cells A2) Mitosis B1) Carbohydrates B2) Lipids	A1) Transport across membranes A2) Immunology (start) B1) Proteins B2) Enzymes B3) Nucleic acids	A1) Immunology (end) A2) DNA and genes B1) ATP and water B2) Surface area B3) Gas exchange (start)	A1) Protein synthesis A2) Meiosis and mutation B1) Gas exchange (end) B2) Digestion B3) Mass transport (start)	A1) Selection A2) Species and taxonomy A3) Courtship B1) Mass transport (middle)	A1) Biodiversity A2) Investigating diversity B1) Mass transport end B2 + A3) Ecosystems and stats
Year 13	A1) Photosynthesis A2) Respiration B1) Energy in ecosystems B2) Nutrient cycles B3) Succession	A1) Respiration (end) A2) Stimulus and response A3) Receptors B1) Inheritance B2) Populations B3) Speciation	A1) Heart rate A2) Nervous system A3) Skeletal muscles B1) Mutation B2) Stem cells and cell regulation B3) cancer	A1) Homeostasis (start) B1) Genetic engineering B2) Gene probes	A1) Homeostasis (end) B1) Genetic fingerprinting B2) Human genome project	