

Long Term Planning - **Biology**  
Curriculum Overview

Year Group	Unit 1	Unit 2	Unit 3	Unit 4	Unit 5	Unit 6
<b>Year 7</b>						
<b>Skill(s)</b>						
<b>PD/T&amp;E</b>						
<b>Futures</b>						
<b>Year 8</b>						
<b>Skill(s)</b>						
<b>PD/T&amp;E</b>						
<b>Futures</b>						
<b>Year 9</b>	Cell biology	Cell division	Digestive system & enzymes	The heart and blood vessels	Plant tissue and organs	Communicable diseases
<b>Skill(s)</b>	Knowledge, using microscopes and calculations	Knowledge, discussions and debates.	Development of knowledge, practical skills and analysis	Knowledge, labelling images, explaining, analysis of graphs and making	Development of knowledge, identification and explaining	Recall, knowledge development, analysis, evaluation & practical

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				comparisons	adaptations	
<b>PD/T&amp;E</b>	The concept of 'life' and how life has evolved	Ethical considerations linked to stem cells	Healthy eating, sports and diseases e.g. diabetes	Living a healthy lifestyle to reduce risk of diseases	The food industry and growing crops	Awareness of how infectious diseases are spread, prevented and treated
<b>Futures</b>	Cell biologist, phlebotomist and forensic scientist.	Veterinary nursing - laboratory work, CSI- looking at hairs etc from crime scene	Food industry, dietician and manufacturing	Surgeon, doctor, personal trainer	Conservation officer, gardener, environmental scientist and tree surgeon	
<b>Year 10</b>	Bioenergetics	Homeostasis & response	Hormones & human reproduction	Inheritance	Evolution	Ecology
<b>Skill(s)</b>	Recall, knowledge development, analysis, evaluation & practical	Recall, knowledge development, analysis, evaluation & practical	Recall, knowledge development, analysis, evaluation & practical	Recall, knowledge development, analysis, evaluation & practical	Recall, knowledge development, analysis, evaluation & practical	Recall, knowledge development, analysis, evaluation & practical
<b>PD/T&amp;E</b>		Ethical considerations linked to transplants (eg new livers for alcoholics etc.)	Sex education. Ethics of forms of contraception	Ethics of DNA technology including PGD & its various uses Sensitivity re. genetic diseases & their	Others' views on human development i.e. creationism, intelligent design etc.	Ethics & morals of humanity's duty of care to the planet & future generations

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		Awareness of & sensitivity for those with conditions such as diabetes		effects Ethical considerations of the right to a life, for those who have such diseases	Panspermia as a developing theory	
<b>Futures</b>	Exercise physician, medic, physio, sports scientist Horticulturist / farmer / agriculturist	Medicine, nursing Diabetes / hepatic specialists Sports therapist	Medicine, nursing Fertility specialist	Medicine, nursing Genetic counsellor IVF specialist	Palaeontologist Taxonomist Phylogeneticist	Ecologist Botanist Conservationist Eco-Warrior
<b>Year 11</b>	Evolution	Ecology	Ecology and group specific recapping of key concepts	Bespoke intervention & revision based on QLA of mocks	Bespoke intervention & revision based on QLA of mocks	
<b>Skill(s)</b>	Recall, knowledge development, analysis, evaluation & practical	Recall, knowledge development, analysis, evaluation & practical	Recall, knowledge development, analysis, evaluation & practical	Exam - specific skill development	Exam - specific skill development	
<b>PD/T&amp;E</b>	Others' views on human development i.e. creationism, intelligent design	Ethics & morals of humanity's duty of care to the planet & future generations.				

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	etc. Panspermia as a developing theory.					
<b>Futures</b>	Paleontologist Taxonomist Phylogeneticist	Ecologist Botanist Conservationist Eco-Warrior				
<b>Year 12</b>	Cells & Biological molecules	Cells & Biological molecules	Genetics & variation  Organisms exchange substances	Genetics & variation  Organisms exchange substances	Genetics & variation  Organisms exchange substances	Revision, Ecology trip & start of Yr 13
<b>Skill(s)</b>	Recall, knowledge development, analysis, evaluation & practical	Recall, knowledge development, analysis, evaluation & practical	Recall, knowledge development, analysis, evaluation & practical	Recall, knowledge development, analysis, evaluation & practical	Recall, knowledge development, analysis, evaluation & practical	Recall, knowledge development, analysis, evaluation & practical
<b>PD/T&amp;E</b>	The concept of 'life' & the ethics relating to sentience	The concept of 'life' & the ethics relating to sentience	Awareness of genetic disease & related sensitivities The ethics of DNA technologies	Awareness of genetic disease & related sensitivities The ethics of DNA technologies	Awareness of genetic disease & related sensitivities The ethics of DNA technologies	
<b>Futures</b>	Cytologist	Cytologist	Geneticist	Geneticist	Geneticist	

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	Microbiologist EM technician R&D	Microbiologist EM technician R&D	Phylogeneticist Medic, nurse Renal, respiratory specialists	Phylogeneticist Medic, nurse Renal, respiratory specialists	Phylogeneticist Medic, nurse Renal, respiratory specialists	
<b>Year 13</b>	Energy & ecosystems, nutrient cycles Photosynthesis  Respiration & genetics	Photosynthesis, survival & response  Genetics	Nerves & coordination Skeletal muscle  Control of gene expression	Homeostasis  Control of gene expression	Bespoke intervention & revision based on QLA of mocks	
<b>Skill(s)</b>	Recall, knowledge development, analysis, evaluation & practical	Recall, knowledge development, analysis, evaluation & practical	Recall, knowledge development, analysis, evaluation & practical	Recall, knowledge development, analysis, evaluation & practical	Recall, knowledge development, analysis, evaluation & practical	
<b>PD/T&amp;E</b>	Ethical issues relating to conservation and large-scale farming & related pollution	Awareness of genetic disease & related sensitivities The ethics of DNA technologies				
<b>Futures</b>	Medicine Horticulturist Botanist Sports scientists	Geneticist Phylogeneticist Medic, nurse	Geneticist Phylogeneticist Medic, nurse	Geneticist Phylogeneticist Medic, nurse		