	Half term 1	Half term 2	Half term 3	Half term 4	Half term 5	Half term 6
Year 11 Biology & Combined Science Biology	Content delivered: Unit 7: Ecology Communities Biotic & abiotic factors Biodiversity Animal adaptations Plant adaptations HSW: Ecology practical work How materials are cycled Waste management	Content delivered: Unit 7: Ecology Land use Deforestation Global warming Trophic levels (Biology only) Food security (Biology only) Farming techniques (Biology only) Fisheries (Biology only) Biotechnology (Biology only) Unit 6: Genetics Sexual & asexual reproduction Meiosis	Content delivered: Unit 6: Genetics Genetic inheritance Inherited disorders Sex determination Variation Evolution Selective breeding Genetic engineering Evidence for evolution Fossils Extinction Resistant bacteria	Content delivered: Unit 5: Homeostasis and response The nervous system The brain (Biology only) The eye (Biology only) Thermoregulation (Biology only) Endocrine system Controlling blood sugars Controlling water levels (Biology only) Reproduction & contraception Treating infertility Plant hormones (Biology only)	Content delivered: Unit 1 content review and exam prep Unit 2 content review and exam prep Unit 3 content review and exam prep Unit 4 content review and exam prep Unit 5 content review and exam prep Unit 6 content review and exam prep Unit 7 content review and exam prep	
Key Words Level 2 Level 3	Structural, behavioural, functional, adaptation, quadrat, transect, biotic, abiotic, behavioural, structural, functional, adaptation, nutrient, detritivore, recycle	Variation Evolution deforestation, global warming, ozone, biodiversity, trophic level, consumer, producer, herbivore, carnivore, biomass, quota, sustainable, biotechnology, anaerobic, sexual, variation, inheritance, asexual, anther, pollen, sperm, chromosome, meiosis, genome, chromosome, inheritance, gamete,	Classification Gamete, inheritance, heterozygous, homozygous, dominant, recessive, carrier, Darwin, Lamarck, survival, speciation, favourable, inherited, fertile, fossil, sedimentary, extinction, natural selection, favourable, reproduce, plasmid, extinction, evolution, kingdom, phylum, class, order, family, genus,	Homeostasis, sensory, relay, motor, neurone, synapse, receptor, effector, response, myopia, hyperopia, concave, convex, sclera, pupil, suspensory ligaments, retina, optic nerve, impulse, hormone, insulin, glucagon, glycogen, pancreas, osmoregulation, dialysis, infertility, oestrogen, progesterone,	Taken from all units	Summer
Where previous knowledge has occurred and future	KS2: Adaptations of living things KS3: Year 8 – adaptation to change	homozygous, heterozygous, Darwin, Lamarck, survival, favourable, inherited, fertile, KS2: The role of flowers; constructing & using food chains KS3: Year 7 – Food security	ks2: Classification of living things ks3: Year 8 – variation	testosterone, FSH, LH, menstrual cycle, condom, IUD, hormone, secrete, auxin, ethene, gibberellin, phototropism KS2: Changes as humans age KS3: Reproduction KS4: Unit 1 – specialised cells	KS2: All relevant content KS3: All relevant content	exams
development KS2 → KS3 → KS4 → KS5 Common Misconceptions	KS4: Unit 1 – plant cells KS5: Ecological relationships All adaptations are benficial	KS3: Year 7 – Food security KS4: Unit 1 – specialised cells KS4: Unit 7 – adaptations KS5: Cell cycle & Hardy-Weinberg equation Global warming and climate change are	KS4: Unit 1 – specialised cells KS4: Unit 7 – adaptations KS5: Monohybrid/dihybrid crosses and Hardy-Weinberg equation That some people have more chance of	KS4: Unit 1 – specialised cells KS4: Unit 2 – diet KS4: Unit 4 – respiration KS5: Action potentials, thermoregulatory systems, hormones Brain injuries result in death	KS4: All taught units from Y10 & Y11 KS5: Used in all units Identified and addressed from mock	
common wisconceptions	All adaptations are bernicial	the same thing	having a baby boy or girl	Brain injuries result in death	exams	
Literacy	Scientific writing (HSW): Ecology NHTW reviews as starter activities	Ethical arguments: deforestation and land use NHTW reviews as starter activities	Writing to compare and evaluate: the work of Darwin and Lamarck NHTW reviews as starter activities	Writing to describe: blood glucose control Writing to describe: Thermoregulation NHTW reviews as starter activities	NHTW reviews as starter activities	
Numeracy	Drawing and interpreting graphs Calculating means	Interpreting different types of graphs	Calculating probabilities	Calculating percentages	Graphs skills Calculating means	
Homework	Completion of kerboodle/everlearner section quizzes	Completion of kerboodle/everlearner section quizzes	Completion of kerboodle/everlearner section quizzes	Completion of kerboodle/everlearner section quizzes	Completion of kerboodle/everlearner section quizzes	
Assessment this half-term	Unit 7 test with elements of units 1-4	Mock exam – paper 1 & 2	Mock exam – paper 2	Unit 5 test with elements of units 1-7	Exam style questions	
Career opportunities Employment Links	LIFE SKILLS: Understanding how species interact EMPLOYMENT: Conservationist	LIFE SKILLS: Understanding how population growth affects resources EMPLOYMENT: Farmer, fisherman	LIFE SKILLS: Understanding how characteristics are passed on EMPLOYMENT: Archaeologist	LIFE SKILLS: Understanding how to correct vision defects EMPLOYMENT: Optometrist	LIFE SKILLS: Resilience and organisation EMPLOYMENT: You can do anything with science!	
Enrichment				Nancy Rothwell Award		
Practical activities/HSW	Ecology fieldwork % cpver Effect of abiotic factor on distribution	Darwin's finches – testing beak size	Extracting DNA Cloning	Ruler drop test	RP reviews	
Employability Skills	Aiming high Creativity Leadership Listening Presenting Problem solving Listeracy Numeracy Independence Communication Teamwork Staying positive	Aiming high Creativity Numeracy Leadership Listening Communication Presenting Teamwork Problem solving Staying positive	Aiming high Creativity Leadership Listening Presenting Problem solving Listeracy Numeracy Independence Communication Teamwork Staying positive	Aiming high Creativity Leadership Listening Presenting Problem solving Listeracy Numeracy Independence Communication Teamwork Staying positive	Aiming high Creativity Leadership Listening Presenting Problem solving Literacy Numeracy Literacy Communication Teamwork Staying positive	
IT Skills	IT1 & IT2: Appropriate websites and research for homework as well as recall quizzes	IT1 & IT2: Appropriate websites and research for homework as well as recall quizzes	IT1 & IT2: Appropriate websites and research for homework as well as recall quizzes	IT1 & IT2: Appropriate websites and research for homework as well as recall quizzes	IT1 & IT2: Appropriate websites and research for homework as well as recall quizzes	
Notes/developments /standardisation comments	Unit 7 taught out of sequence to allow for weather	practical work to occur during better			Key focus on areas of weakness identified from mock exams	