

Biology
Year 13 curriculum map



Year 13	T1	T2	T3	T4	T5	T6
Content / Topic for Term	Review of food chains, productivity and cycles Review populations Evolution to speciation and estimation population size Photosynthesis Nervous system Control of heart rate	Muscles Taxis and kinesis Respiration Homeostasis and feedback	Respiration Inheritance Statistics Control of gene expression	Recombinant DNA Genetic screening Genetic fingerprints Gene expression and cancer Statistics Essay writing	Statistics Essay writing Revision	Revision
Key Knowledge for acquisition, recall and application in assessment or exam	Use of data to calculate net productivity and efficiency of energy transfer. Calculation of percentage yields	Experimental design. Use of formulas to calculate values Interpret information relating to data provided	Recall and explanation of processes and data interpretation of pathway	Investigation skills and evaluation of screening and drug response Correct selection and processing of statistical tests	Correct selection and processing of statistical tests Planning and application of correct essay writing format	

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	Devise experimental design to investigate environmental variables	Evaluation of data for given sectors of society	<p>Correct selection and calculation of valid statistical tests</p> <p>Comparison of gene mutation to encoded polypeptide</p> <p>Evaluation of gene technology processes</p> <p>Data interpretation of gene expression and the environmental influences</p>	Planning and application of correct essay writing format		
Key skills to apply in assessment or exam	Recall explanation, data evaluation, correct experimental design	<p>Data and formula use to draw conclusions and explanation</p> <p>Formulating evaluations from calculated data</p> <p>Correct experimental design</p>	<p>Recall and explanation of concepts using information from data</p> <p>Comparing of variables with given results</p> <p>Evaluation skills</p>	<p>Investigation skills</p> <p>Explanation and evaluation skills</p>	<p>Processing and calculation of statistical tests</p> <p>Planning and execution of correctly formatted essay</p>	<p>Calculation of data, use of random sampling, appropriate design of investigations</p> <p>Calculation of energy transfer and respiratory loss</p>

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Title of Knowledge Organiser	Energy transfers Photosynthesis	Organisms response to internal and external response	Respiration Inheritance Control of gene expression	Control of gene expression Essay writing Statistical tests		
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