



Biology	Working towards expected outcomes	Working at expected outcomes	Working beyond expected outcomes
<p>Year 11 AQA Biology</p> <p><u>Autumn term</u> Homeostasis and response: the hormonal system, plant tropisms, the kidney.</p> <p>Inheritance, Variation and Evolution: sexual and asexual reproduction, meiosis, DNA and protein synthesis.</p> <p><u>Spring term</u> Inheritance, Variation and Evolution: genetic crosses, variation, evolution and natural selection, selective breeding, genetic engineering, cloning.</p>	<p>Your child is not yet making the expected progress within this course.</p> <p>Students working towards expected outcomes in Year 11 can:</p> <p>Understanding knowledge</p> <ul style="list-style-type: none"> demonstrate developing and relevant knowledge of key concepts covered so far in the topic checklists. <p>Applying knowledge</p> <ul style="list-style-type: none"> use knowledge, from the topic checklists, in some familiar contexts. use knowledge in easier unfamiliar contexts with limited use of biological terminology. begin to develop logical descriptions that include accurate and relevant details, with opportunities to refine focus and minimize less relevant information. <p>Mathematical skills</p>	<p>Your child is achieving the expected progress for this point within the course.</p> <p>Students working at expected in Year 11 can:</p> <p>Understanding knowledge</p> <ul style="list-style-type: none"> demonstrate accurate and pertinent knowledge and understanding in the majority of concepts addressed thus far in the topic checklists. <p>Applying knowledge</p> <ul style="list-style-type: none"> use knowledge and understanding, from the topic checklists, in all familiar and some unfamiliar contexts. develop accurate, straightforward explanations with good use of biological terminology. begin to make clear links between ideas from different parts of the course in straightforward responses to questions. <p>Mathematical skills</p>	<p>Your child is exceeding the expected progress.</p> <p>Students working beyond expected in Year 11 can:</p> <p>Understanding knowledge</p> <ul style="list-style-type: none"> demonstrate relevant and comprehensive knowledge and understanding of all the concepts covered so far in the topic checklists. <p>Applying knowledge</p> <ul style="list-style-type: none"> use detailed knowledge and understanding, from all parts of the course so far with no errors. This will be in both familiar and unfamiliar contexts using accurate biological terminology. develop accurate, logical and detailed descriptions, explanations and arguments during extended writing. The biological terminology used will be complex and fully relevant to the question. make clear links between concepts from various sections of the course within your answers to provide comprehensive and well-rounded explanations to problems. <p>Mathematical skills</p>



	<ul style="list-style-type: none">• use appropriate mathematical skills to perform single step calculations from numerical data. Values may not be recorded to right number of decimal places. <p>Investigative skills</p> <ul style="list-style-type: none">• interpret qualitative and quantitative data to draw straightforward conclusions supported by relevant evidence.• suggest limited improvements to experimental methods, and comment briefly on the accuracy of scientific conclusions.	<ul style="list-style-type: none">• use a range of mathematical skills to perform multi-step scientific calculations with the required level of precision. This data will usually be recorded to the right number of decimal places. <p>Investigative skills</p> <ul style="list-style-type: none">• analyse qualitative and quantitative data and draw logical conclusions, supported by a variety of relevant evidence.• evaluate and suggest improvements and developments to experimental methods, and can comment on the accuracy and validity of scientific conclusions.	<ul style="list-style-type: none">• use a range of mathematical skills to perform complex, multi-step scientific calculations with the required level of precision. These complex calculations may involve using data from graphs or from previously calculated data. <p>Investigative skills</p> <ul style="list-style-type: none">• critically analyse qualitative and quantitative data and draw logical, well evidenced conclusions that fully explain the results.• critically evaluate and refine methods and judge the validity of scientific conclusions. Any improvements suggested would give precise data with high levels of repeatability.
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