



# Science - Biology

## Key Stage 4 - Year 10 – Triple Award

Term One	Term Two	Term Three
<b>The Heart &amp; Respiration</b> <ul style="list-style-type: none"> <li>• Heart and Blood Vessels Review</li> <li>• Heart and CHD Review</li> <li>• Treating the Heart</li> <li>• Gas Exchange</li> <li>• Aerobic Respiration</li> <li>• Anaerobic Respiration and Exercise</li> <li>• Metabolism and Anaerobic Respiration in Plants</li> <li>• Investigating Respiration</li> <li>• Linking Respiration to the Heart</li> </ul>	<b>Communicable and Non-Communicable Disease</b> <ul style="list-style-type: none"> <li>• Vaccines</li> <li>• Treating Disease with Medicines</li> <li>• Developing Drugs</li> <li>• Monoclonal Antibodies</li> <li>• Uses of Monoclonal Antibodies</li> <li>• Cancer</li> <li>• Non-Communicable Disease</li> </ul>	<b>Homeostasis – The Brain and Eye</b> <ul style="list-style-type: none"> <li>• The brain</li> <li>• The eye</li> <li>• Accommodation and light</li> <li>• Problems with the eye</li> </ul>
<b>Photosynthesis &amp; Organisation in Plants</b> <ul style="list-style-type: none"> <li>• Structure of the Leaf</li> <li>• Photosynthesis</li> <li>• Factors Affecting Photosynthesis</li> <li>• Speeding Up Photosynthesis</li> <li>• Uses of Glucose</li> <li>• Organisation in Plants</li> <li>• Plant disease</li> <li>• Transpiration Factors</li> <li>• Potometers</li> </ul>	<b>Homeostasis – Nervous Response</b> <ul style="list-style-type: none"> <li>• Principles of Homeostasis</li> <li>• Nervous Response</li> <li>• Reflex Response</li> <li>• Synapses</li> </ul>	<b>Homeostasis – Hormonal Control</b> <ul style="list-style-type: none"> <li>• Hormonal Control</li> <li>• Negative feedback</li> <li>• Thermoregulation</li> <li>• Glucoregulation</li> <li>• Diabetes</li> <li>• Treating Diabetes</li> </ul>

# Science - Biology



KING EDWARD VI  
SCHOOL LICHFIELD

<b>Plants Pathogens and Their Disease</b>		<b>Homeostasis – Hormonal Control</b>
<ul style="list-style-type: none"><li>• Types of Pathogens</li><li>• Primary Defence to pathogens</li><li>• White Blood Cell Response</li></ul>		<ul style="list-style-type: none"><li>• The kidney</li><li>• Problems with the kidney</li><li>• Treating the kidney</li></ul>



# Science - Biology

## Key Stage 4 - Year 11 – Triple Award

Term One	Term Two	Term Three
<b>Homeostasis – Hormonal Control</b>	<b>Evolution, Speciation, Selective Breeding &amp; Genetic Modification</b>	<b>The Earth's Resources and Ecosystems</b>
<ul style="list-style-type: none"> <li>• Hormones in Puberty</li> <li>• Menstrual Cycle</li> <li>• Contraceptives</li> <li>• Fertility Treatments</li> <li>• Plant hormones</li> <li>• Plant hormone uses</li> </ul>	<ul style="list-style-type: none"> <li>• Fossils as Evidence</li> <li>• Selective Breeding</li> <li>• Genetic Engineering</li> <li>• Uses of GM</li> <li>• Animal Cloning</li> <li>• Plant Cloning</li> <li>• Extinction</li> <li>• Speciation</li> <li>• Antibiotic Resistance</li> </ul>	<ul style="list-style-type: none"> <li>• Food Security</li> <li>• Farming Techniques</li> <li>• Fisheries</li> <li>• Biotechnology</li> <li>• Investigating Ecosystems</li> <li>• Factors Affecting Ecosystems</li> </ul>
<b>Reproduction and Inheritance</b>	<b>Ecosystems and Cycles in Biology</b>	<b>Exams</b>
<ul style="list-style-type: none"> <li>• Asexual and Sexual Reproduction</li> <li>• Meiosis</li> <li>• DNA and the Genome</li> <li>• Protein synthesis</li> <li>• Mutations</li> <li>• Mendel and evidence for inheritance</li> <li>• Genetic Inheritance (sex)</li> <li>• Genetic Inheritance (disease)</li> <li>• Evolution</li> </ul>	<ul style="list-style-type: none"> <li>• Classification</li> <li>• Animal and Plant Adaptations</li> <li>• Carbon and Water Cycle</li> <li>• Decay Cycle</li> <li>• Factors Affecting Decay</li> </ul>	<ul style="list-style-type: none"> <li>• Revision and exams</li> </ul>