

# KS5 Biology OCR Curriculum Map Year 13 Over view

	Note Composite 1 takes many different forms depending on the subject area. It is linked to specific PAG skills woven through Composite 2-5	Teacher 1 content taught Teacher 2 content taught						
	Composite 1	Autumn 1	Autumn 2	Spring 1	Spring 2	Summer 1	Summer 2	
Curriculum Content	<p>Composite 1:</p> <p>Development of practical skills in biology</p> <p>1.1.1 Planning</p> <p>1.1.2 Implementing</p> <p>1.1.3 Analysis</p> <p>1.1.4 Evaluation</p> <p>1.2.1 Practical Skills</p> <p>1.2.2 Use of apparatus and techniques</p>	<p><b>Composite 4: Module 4</b></p> <p>– <b>Energy, reproduction and populations</b></p> <p>4.1.1 Cellular respiration</p> <p>4.1.2 Metabolism and exercise</p> <p>4.2.1 Fertility and assisted reproduction</p> <p>4.2.2 The effects of ageing on the reproductive system</p>	<p>4.3.1 Photosynthesis, food production and management of the environment</p> <p>4.3.2 The impact of population increase</p> <p>4.4.1 Plant reproduction</p>	<p><b>Composite 5: Genetics, control and homeostasis</b></p> <p>5.1.1 Patterns of inheritance</p> <p>5.1.2 Population genetics and epigenetics</p> <p>5.1.3 Gene technologies</p> <p>5.2.1 The nervous system and the identification and consequences of damage</p> <p>5.2.2 Monitoring visual function</p> <p>5.2.3 The effect of ageing on the nervous system</p>	<p>5.3.1 The principles and importance of homeostasis</p> <p>5.3.2 The hormonal control of blood glucose and the management of diabetes</p> <p>5.3.3 Kidney functions and malfunctions</p>	<p><u>Revision and exams</u></p>		
Prior knowledge and skills (from previous year / key stage)	<ul style="list-style-type: none"> <li>KS4 required practical's at GCSE</li> <li>KS4 use of equations e.g. magnification</li> <li>Year 12 PAG 1-9 skills</li> </ul>	<ul style="list-style-type: none"> <li>KS4 Respiration equation</li> <li>KS4 Homeostasis Human reproduction</li> </ul>	<ul style="list-style-type: none"> <li>KS4 Photosynthesis equation and rates practical's</li> </ul>	<ul style="list-style-type: none"> <li>KS4 Separates gene therapy</li> <li>KS4 Nervous system structure and reflex arc</li> </ul>	<ul style="list-style-type: none"> <li>KS4 Homeostasis unit</li> <li>Separates – dialysis and transplants</li> </ul>	<ul style="list-style-type: none"> <li></li> </ul>	<ul style="list-style-type: none"> <li></li> </ul>	
Assessment Components	<p><b>AO1:</b> Demonstrate knowledge and understanding of:</p> <ol style="list-style-type: none"> <li>scientific ideas</li> <li>scientific techniques and procedures.</li> </ol> <p><b>AO2:</b> Apply knowledge and understanding of:</p> <ol style="list-style-type: none"> <li>scientific ideas</li> </ol>	<p><b>AO1:</b> Demonstrate knowledge and understanding of:</p> <ol style="list-style-type: none"> <li>scientific ideas</li> <li>scientific techniques and procedures.</li> </ol> <p><b>AO2:</b> Apply knowledge and understanding of:</p> <ol style="list-style-type: none"> <li>scientific ideas</li> </ol>	<p><b>AO1:</b> Demonstrate knowledge and understanding of:</p> <ol style="list-style-type: none"> <li>scientific ideas</li> <li>scientific techniques and procedures.</li> </ol> <p><b>AO2:</b> Apply knowledge and understanding of:</p>	<p><b>AO1:</b> Demonstrate knowledge and understanding of:</p> <ol style="list-style-type: none"> <li>scientific ideas</li> <li>scientific techniques and procedures.</li> </ol> <p><b>AO2:</b> Apply knowledge and understanding of:</p>	<p><b>AO1:</b> Demonstrate knowledge and understanding of:</p> <ol style="list-style-type: none"> <li>scientific ideas</li> <li>scientific techniques and procedures.</li> </ol> <p><b>AO2:</b> Apply knowledge and understanding of:</p>			

	2) scientific enquiry, techniques and procedures. <b>AO3:</b> Analyse information and ideas to: 1a) interpret 1b) evaluate 2a) make judgements 2b) draw conclusions 3a) develop experimental procedures 3b) improve experimental procedures.	2) scientific enquiry, techniques and procedures <b>AO3:</b> Analyse information and ideas to: 1a) interpret 1b) evaluate 2a) make judgements 2b) draw conclusions 3a) develop experimental procedures 3b) improve experimental procedures.	1) scientific ideas 2) scientific enquiry, techniques and procedures. <b>AO3:</b> Analyse information and ideas to: 1a) interpret 1b) evaluate 2a) make judgements 2b) draw conclusions 3a) develop experimental procedures 3b) improve experimental procedures.	1) scientific ideas 2) scientific enquiry, techniques and procedures. <b>AO3:</b> Analyse information and ideas to: 1a) interpret 1b) evaluate 2a) make judgements 2b) draw conclusions 3a) develop experimental procedures 3b) improve experimental procedures.	1) scientific ideas 2) scientific enquiry, techniques and procedures. <b>AO3:</b> Analyse information and ideas to: 1a) interpret 1b) evaluate 2a) make judgements 2b) draw conclusions 3a) develop experimental procedures 3b) improve experimental procedures.		
<b>Vocabulary / Key Subject Terminology</b>		Menstrual cycle LH FSH Oestrogen Gametogenesis Oogenesis Glycolysis Krebs Cycle Electron transport	Thylakoids Stroma Photosystem Photophosphorylation Photolysis Calvin cycle	Photosynthesis Respiration Fermentation Rate Harness energy	Glucose Glucagon Homeostasis Hormone Insulin Negative feedback		
<b>Assessment 1</b>	PAG Work assessed and recorded using externally provided exam board tracker for each component PAG Paper	EOU Test for each component using Exam builder	EOU Test for each component using Exam builder	EOU Test for each component using Exam builder	EOU Test for each component using Exam builder		
<b>Assessment 2</b>	PAG Work assessed and recorded using externally provided exam board tracker for each component PAG Paper	EOU Test for each component using Exam builder	AP1 2 x 1 hour 45 paper 1 x PAG Paper	EOU Test for each component using Exam builder	AP2 full 3 A level paper compliment using secure material		
<b>Cross Curricular Links with other Faculties</b>	Maths- Graph skills, equations, rearranging formulas English – Literacy skills, connectives, keywords and definitions	Maths- Graph skills, equations, rearranging formulas English – Literacy skills, connectives, keywords and definitions	Maths- Graph skills, equations, rearranging formulas English – Literacy skills, connectives, keywords and definitions	Maths- Graph skills, equations, rearranging formulas English – Literacy skills, connectives, keywords and definitions	Maths- Graph skills, equations, rearranging formulas English – Literacy skills, connectives, keywords and definitions		
<b>Extra-Curricular Offer</b>	Revision sessions ( exam technique) University visits if possible to look at degree courses and lab skills.	Revision sessions ( exam technique) University visits if possible to look at degree courses and lab skills.	Revision sessions ( exam technique) University visits if possible to look at degree courses and lab skills.	Revision sessions ( exam technique) University visits if possible to look at degree courses and lab skills.	Revision sessions ( exam technique) University visits if possible to look at degree courses and lab skills.		
<b>Time Allocation</b>		35 hour	30 hours	30 hours	30 hours		

