

**This half term: Skills, Knowledge and Understanding to be developed:**

**Skills (students WILL BE ABLE to by the end of the Learning Programme):** label and describe the functions of parts of the male and female reproductive systems; be able to analyse oscilloscope traces showing the passage of an action potential.

**Knowledge (students WILL KNOW by the end of the Learning Programme):** the processes of spermatogenesis and oogenesis to produce spermatozoa and secondary oocytes; fertilisation and implantation.

**Understanding (students WILL DEMONSTRATE THEIR UNDERSTANDING by the end of the Learning Programme):** the nature and transmission of the nerve impulse; the processes of sexual intercourse, fertilisation and implantation in humans; the endocrine control of reproduction in the female human.

**Key Terms / Words:**  
 spermatogenesis; spermatozoa; spermatogonia; spermatocytes; spermatids; oogenesis; oogonia; oocytes; blastocyst; corona radiata; zona pellucida; first polar body; cell membrane; cortical granules; acrosome reaction; zygote; implantation; placenta

<p><b>LP 2 – Week 1 &amp; 2 Learning Outcomes:</b></p> <p style="text-align: center;"><b>Mock Exam Week 1</b></p> <p><b>SUMMATIVE ASSESSMENT</b>        Students will apply and demonstrate knowledge and skills in a mock exam (LP 6, LP 1 &amp; LP 2).</p> <p><b>Students will be able to</b></p> <ul style="list-style-type: none"> <li>label and describe the functions of parts of the male and female reproductive systems</li> </ul> <p><b>Students will be able to</b></p> <ul style="list-style-type: none"> <li>Describe the process of spermatogenesis to produce spermatozoa</li> </ul>	<div style="border: 1px solid blue; padding: 2px; width: 40px; margin: 5px auto;">SA</div> <div style="border: 1px solid red; padding: 2px; width: 40px; margin: 5px auto;">Mark</div> <div style="border: 1px solid red; padding: 2px; width: 40px; margin: 5px auto;">Grade</div> <div style="background-color: #90EE90; padding: 2px; width: 40px; margin: 5px auto; display: inline-block;">Assessment →</div>	<p><b>Success criteria:</b></p> <p style="text-align: center; color: blue;"><b>Summative assessment</b></p>	<p style="text-align: center;"><b>Homework LP 2</b></p> <p style="color: green; text-align: center;"><i>Revise all unit 3 content for mock examination (summative assessment)</i></p>
<p><b>LP 2 – Week 3 &amp; 4 Learning Outcomes:</b></p> <p><b>Students will be able to</b></p> <ul style="list-style-type: none"> <li>Describe the process of oogenesis to produce secondary oocytes</li> </ul> <p><b>Students will be able to</b></p> <ul style="list-style-type: none"> <li>describe processes of sexual intercourse; fertilisation and implantation in humans</li> </ul> <p><b>Students will be able to</b></p> <ul style="list-style-type: none"> <li>explain the endocrine control of reproduction in the female human</li> </ul> <p style="color: blue;"><b>Students will apply and demonstrate new knowledge and skills in APP1 assessment</b></p>	<div style="background-color: #90EE90; padding: 2px; width: 40px; margin: 5px auto; display: inline-block;">Assessment →</div> <div style="border: 1px solid blue; padding: 2px; width: 40px; margin: 5px auto;">APP1</div> <div style="border: 1px solid red; padding: 2px; width: 40px; margin: 5px auto;">Mark</div>	<p><b>Success criteria:</b></p> <p style="color: blue;"><b>APP1 ( 10 marks)</b></p> <p>Examination questions on spermatogenesis and oogenesis</p> <p>Correct completion of examination questions on the hormonal control of the menstrual cycle</p>	<p style="text-align: center;"><b>Homework LP 2</b></p> <p style="color: green; text-align: center;"><b>Homework 1</b></p> <p style="color: green; text-align: center;"><i>Examination questions on spermatogenesis and oogenesis</i></p> <p style="color: green; text-align: center;"><b>Prepare for next lesson</b></p> <p style="color: green; text-align: center;"><i>Read the relevant section in your A Level Biology Text Book to develop your skills, knowledge and understanding of spermatogenesis, oogenesis and fertilisation.</i></p>
<p><b>LP 2 – Week 5 &amp; 6 Learning Outcomes:</b></p> <p><b>Students will be able to</b></p> <ul style="list-style-type: none"> <li>label and describe the generalised structure of flowers to be able to compare wind and insect pollinated flowers</li> </ul> <p><b>Students will be able to</b></p> <ul style="list-style-type: none"> <li>Describe the development of pollen and ovules, including examination of prepared slides of anther and ovary</li> </ul> <p><b>Students will be able to</b></p> <ul style="list-style-type: none"> <li>Describe cross and self-pollination and the process of double fertilisation</li> </ul> <p><b>Students will be able to</b></p> <ul style="list-style-type: none"> <li>Describe the formation and structure of seed and fruit as shown by broad bean and maize and the the process of germination of Vicia faba (broad bean)</li> </ul>		<p><b>Success criteria:</b></p> <p>Examination questions on pollination and fertilisation</p>	<p style="text-align: center;"><b>Homework LP 2</b></p> <p style="color: green; text-align: center;"><b>Prepare for next lesson</b></p> <p style="color: green; text-align: center;"><i>Read the relevant section in your A Level Biology Text Book to develop your skills, knowledge and understanding</i></p>



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