

**Appendix 3**  
**Senior School Biology**

**First Year – end of Autumn Term and beginning of Spring Term**

| <b>Lesson title</b>                          | <b>Lesson Outcomes</b>                                                                                                                                                                                       |
|----------------------------------------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| <b>How a New Life Starts<br/>(2 lessons)</b> | How do the main human reproductive organs work?<br><br>What are the differences between sperm and egg and how are they adapted?<br><br>What happens during fertilisation?                                    |
| <b>Puberty and Birth Control</b>             | What are the differences between the stages of the human life cycle?<br><br>What are the main changes during puberty and what causes them?<br><br>How do hormonal and barrier methods of contraception work? |
| <b>The Menstrual Cycle</b>                   | What happens during menstrual cycle?<br><br>How does menstrual cycle prepare uterus for a baby?                                                                                                              |
| <b>The Uterus and Pregnancy</b>              | How does the baby develop in the uterus?<br><br>How does the placenta help the baby obtain food and oxygen?<br><br>How does an incubator meet the needs of a premature baby?                                 |
| <b>Birth and Care of the Baby</b>            | What happens during birth?<br><br>What are the advantages of human breast milk?                                                                                                                              |

### **Fifth Year – Autumn Term**

| <b>Content coverage</b>                                                                                                                                                | <b>Learning outcomes</b>                                                                                                                                                                                                                                                                                                                                                                                   |
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| <b>Reproduction and inheritance</b> <ul style="list-style-type: none"><li>• Human reproductive anatomy</li><li>• Secondary sexual characteristics</li></ul>            | Understand structure and function of the male and female reproductive systems                                                                                                                                                                                                                                                                                                                              |
| <b>Reproduction and inheritance</b> <ul style="list-style-type: none"><li>• Menstrual cycle anatomy</li><li>• Placenta role</li><li>• Role of amniotic fluid</li></ul> | Understand the roles of oestrogen and progesterone in the menstrual cycle<br>Understand the roles of FSH and LH in the menstrual cycle<br>Describe the role of the placenta in the nutrition of the developing embryo<br>Understand how the developing embryo is protected by amniotic fluid<br>Understand the roles of oestrogen and testosterone in the development of secondary sexual characteristics. |