

**Appendix 5**  
**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 (2 lessons)</b>	How do the main human reproductive organs work?  What are the differences between sperm and egg and how are they adapted?  What happens during fertilisation?
<b>Puberty and Birth Control</b>	What are the differences between the stages of the human life cycle?  What are the main changes during puberty and what causes them?  How do hormonal and barrier methods of contraception work?
<b>The Menstrual Cycle</b>	What happens during menstrual cycle?  How does menstrual cycle prepare uterus for a baby?
<b>The Uterus and Pregnancy</b>	How does the baby develop in the uterus?  How does the placenta help the baby obtain food and oxygen?  How does an incubator meet the needs of a premature baby?
<b>Birth and Care of the Baby</b>	What happens during birth?  What are the advantages of human breast milk?

## **Fifth Year – autumn term**

<b>Content coverage</b>	<b>Learning outcomes</b>
<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 Understand the roles of FSH and LH in the menstrual cycle Describe the role of the placenta in the nutrition of the developing embryo Understand how the developing embryo is protected by amniotic fluid Understand the roles of oestrogen and testosterone in the development of secondary sexual characteristics.