

<p>Projection Grades (end of year 11) 1-3</p>	<p>Projection Grades (end of year 11) 4-6</p>	<p>Projection Grades (end of year 11) 7-9</p>
<ul style="list-style-type: none"> <input type="checkbox"/> Identify animals that reproduce sexually and correctly use the term: sexual reproduction. <input type="checkbox"/> Describe how different animals care for their offspring. <input type="checkbox"/> Describe how fish, birds and mammals reproduce sexually. <input type="checkbox"/> Identify sperm cells and egg cells as gametes and correctly use the term: gamete. <input type="checkbox"/> Describe the functions of the structures and organs of the human reproductive system. <input type="checkbox"/> Describe how a woman becomes pregnant after fertilisation and correctly use the term: implantation. <input type="checkbox"/> Recall the names of the structures surrounding the developing foetus. <input type="checkbox"/> Identify the placenta and umbilical cord. <input type="checkbox"/> Describe how the developing foetus is protected inside the mother. <input type="checkbox"/> Recall the names of substances in a mother's blood that may harm a developing foetus and correctly use the term: premature baby. <input type="checkbox"/> Recall when human babies change their diet and correctly use the term: mammary gland. <input type="checkbox"/> List the main stages in giving birth in humans. <input type="checkbox"/> Recall the length of the gestation period in humans and correctly use the term: gestation period. <input type="checkbox"/> Identify the parts of the body that change in males and females during puberty and correctly use the terms: puberty, adolescence. <input type="checkbox"/> Recall the length of and stages in the menstrual cycle. <input type="checkbox"/> Correctly use the term: habitat. <input type="checkbox"/> Identify the physical environmental factors that make up the environment in a habitat. <input type="checkbox"/> Describe the adaptations of a range of organisms to their habitats. <input type="checkbox"/> Compare similar adaptations in plants and animals that live in similar places. <input type="checkbox"/> Identify and give examples of inherited & environmental variation <input type="checkbox"/> Describe how physical environmental factors vary in a habitat, both on a daily basis and seasonally. <input type="checkbox"/> Use food chains to create food webs and identify food chains within food webs. <input type="checkbox"/> Use a food web to identify food sources for different animals <input type="checkbox"/> State the resources that organisms need from their habitats and ecosystems. <input type="checkbox"/> Define feeding relationships in terms of energy flow. <input type="checkbox"/> Describe the sources and effects of some pesticides. 	<ul style="list-style-type: none"> <input type="checkbox"/> Compare the sexual reproduction of fish, birds and mammals. <input type="checkbox"/> Use knowledge of the positions or shapes of reproductive organs to make deductions about reproductive processes. <input type="checkbox"/> Suggest outcomes caused by problems with reproductive organs. <input type="checkbox"/> Explain how sperm cells and egg cells are adapted to their functions. <input type="checkbox"/> Compare the reproductive systems of humans and other animals. <input type="checkbox"/> Describe what happens during cell division. <input type="checkbox"/> Explain how identical and non-identical twins occur. <input type="checkbox"/> Describe how materials are supplied and removed from the foetus. <input type="checkbox"/> Identify stages of growth from embryo to newborn baby and recall how these stages can be checked. <input type="checkbox"/> Describe what happens during labour and birth in humans. <input type="checkbox"/> Explain why breast milk is best for newborn babies. <input type="checkbox"/> Compare the life cycles of different animals. <input type="checkbox"/> Identify the role of sex hormones in puberty. <input type="checkbox"/> Describe what happens to parts of the body during puberty and adolescence. <input type="checkbox"/> Explain the purpose of the menstrual cycle. <input type="checkbox"/> Use knowledge of the menstrual cycle to predict timings (e.g. of menstruation, ovulation, fertile period) <input type="checkbox"/> Tell the difference between and identify examples of continuous and discontinuous variation. <input type="checkbox"/> Correctly use the term: species. <input type="checkbox"/> Explain how particular adaptations increase the chances of survival. <input type="checkbox"/> Explain how inherited variation is caused. <input type="checkbox"/> Correctly use the terms: community, ecosystem. <input type="checkbox"/> Explain how changes in a physical environmental factor in a habitat affect populations and communities. <input type="checkbox"/> Explain how environmental variation is caused. <input type="checkbox"/> Explain how particular adaptations increase the chances of survival. <input type="checkbox"/> Describe how the distribution of organisms is controlled by the availability of resources. <input type="checkbox"/> Use food webs to predict the effects of changes in populations. <input type="checkbox"/> Explain the gains and losses of energy from living organisms. <input type="checkbox"/> Explain the effects of some persistent pesticides on ecosystems. <input type="checkbox"/> Interpret models of energy transfer (pyramids of numbers). 	<ul style="list-style-type: none"> <input type="checkbox"/> Explain the implications of different methods of fertilisation in fish, birds and mammals. <input type="checkbox"/> Explain the implications of a certain level of animal offspring aftercare in different situations. <input type="checkbox"/> Explain the links between scientific advances and survival rates of humans. <input type="checkbox"/> Suggest reasons for differences between the same types of specialised cells from different organisms. <input type="checkbox"/> Suggest a function for an unknown animal cell based on its adaptations. <input type="checkbox"/> Use knowledge of reproductive organs to suggest causes of reproductive problems. <input type="checkbox"/> Identify and explain the points in reproduction where difficulties in becoming pregnant could occur. <input type="checkbox"/> Explain how IVF and hormones can be used to increase the chances of pregnancy. <input type="checkbox"/> Explain why ultrasound scans are used during pregnancy. <input type="checkbox"/> Explain why acne may become a problem during puberty. <input type="checkbox"/> Correctly use the term: hybrid. <input type="checkbox"/> Describe how hybrids can be distinguished from species. <input type="checkbox"/> Explain how particular adaptations limit an organism's distribution. <input type="checkbox"/> Recall the differences between innate and learned behaviours. <input type="checkbox"/> Describe how certain learned and innate behaviours can be beneficial to organisms. <input type="checkbox"/> Evaluate food chains and food webs as models of feeding relationships. <input type="checkbox"/> Use data to create food webs. <input type="checkbox"/> Compare models of energy transfer in food chains (pyramids of number, biomass).