



| Year 7 | | | | |
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| Biology | | | | |
| Content: What will students know | Cells. How to use a microscope, animal and plant cells, specialised cells, multicellular organisms, unicellular organisms, diffusion. | Reproduction. Structure and function of reproductive systems in humans and plants. Fertilisation, foetal development, maternal health, birth. | Food and Digestion. Structure and function of the digestive system, balanced diet, food groups, enzymes | Microbes. Different types of microbe, helpful and harmful microbes, disease, immune system, vaccines, how diseases are spread. |
| Skills: What will students be able to do | Use a microscope, prepare slides, plan an experiment, label the parts of a cell, compare and contrast animal and plant cells, recognise specialised cells. | Label diagrams, relate structure to function, discussion skills, identification of factors needed for health in pregnancy. | Relate structure to function in digestive system. Perform and interpret food tests. Explain what makes a balanced diet, interpret data. | Use agar plates to grow bacteria safely, evaluate scientific models. |
| Other: Literacy/ Numeracy/ Ethos | Concept of size, magnification, keywords identified each lesson | To correct misconceptions, use of biological terminology, data interpretation. | Data interpretation, qualitative testing. Keywords identified each lesson | Communication of scientific ideas, orders of magnitude introduced, links to everyday experiences. |
| Assessment: | End of topic test. Afl in lessons | End of topic test. Afl in lessons | End of topic test. Afl in lessons | End of topic test. Afl in lessons |