

Curriculum Content

The S3 Biology course provides students with a foundational understanding of the principles of biology, focusing on the structure, function, and behaviour of living organisms. The course covers key areas such as cells and energy, the diversity of life, genetics and inheritance, and the environment. It encourages practical skills, scientific inquiry, and the application of biological concepts to real-world scenarios..

The Natural World:

This unit explores ecosystems, biodiversity, and the relationships between organisms. Students will study food chains, nutrient cycles, and factors that can affect ecosystems. The unit also covers human influences on the environment and the importance of sustainable practices.

Cellular Biology:

This unit focuses on the fundamental building blocks of life — cells. Students will explore cell structure, processes such as diffusion and osmosis, and how cells gain energy through respiration. Key concepts also include DNA, the process of cell division by mitosis, and the role of enzymes in controlling biological reactions.

Living Machines:

This unit examines how cells work together in tissues, organs, and systems. Students will learn about the structure and function of various body systems such as the digestive, circulatory, and respiratory systems. Plant biology is also covered, including the transport of water and nutrients. The unit highlights how these systems contribute to growth, development, and reproduction.

Assessment

Formative Assessment

- Quizzes
- Research Tasks
- Posters
- Presentations
- Practical Tasks
- Class Discussions
- Class Work
- Mini Whiteboards
- Plenaries
- Peer/Self Assessment

Summative Assessment













Assessment is based on a combination of course-work, including practical activities, end of unit assessments and an end-of-course assessment.

Click the links to learn more about formative and summative assessment approaches:

⇒ [Updated guidance on assessment within the broad general education](#)

⇒ [Bing Videos](#)

Meta-skills

Self-management	Focusing		
	Integrity		
	Adapting		
	Initiative		
Social Intelligence	Communicating		✓
	Feeling		
	Collaborating		
	Leading		
Innovation	Curiosity		
	Sense-making		✓
	Creativity		
	Critical thinking		✓

To find out more detail about the meta skills learned in this curriculum area, please view the meta skills section on our school website.

Kindness

Respect

Ambition

UNCRC



Celebrating Success

Staff List

Mr R King (PT)

Mr Paul McNeill (Technician)

Add subject specific/photos
(examples of work/pupils)

WINCHBURGH ACADEMY



BGE Biology

S3 Curriculum Overview