Science Faculty

Curriculum

Year 12 Biology: Curriculum Overview 2025-26 (Further detail of the intent of the KS5 modules and how they build on our KS4 topics can be found in the KS5 Biology Spiral Curriculum document)

	AUTUMN 1							AUTUMN 2								SPRING 1						SPRING 2						SUMMER 1						SUMMER 2						
	1	2	3	4	5	6	7	1	2	3	4	5	6	7	8	1	2	3	4	5	6	1	2	3	4	5	6	1	2	3	4	5	6	1	2	3	4	5	6	7
Unit description	Teacher A: Complete M2 C2 Basic Components Skills lesson on biological drawing Teacher B: Introduction to PAGs: Skills lessons on tables and graphs, Osmosis theory and Osmosis PAG 8.1 Complete M3 C7 Exchange surfaces and breathing. Start M3 C8 Transport in animals.							Teacher A: Start M2 C3 Biological Molecules Teacher B: Complete M3 C8 Transport in animals. Start M3 C9 Transport in plants.								Teacher A: Complete M2 C3 Biological Molecules Teacher B: Complete M3 C9 Transport in plants Start M4 C10 Classification and evolution.						Teacher A: Complete M2 C4 Enzymes Teacher B: Complete M4 C10 Classification and evolution Start M4 C11 Biodiversity.						Teacher A: Complete M2 C5 Plasma Membranes Teacher B: Complete M4 C11 Biodiversity. Start M4 C12 Communicable diseases.						Teacher A: Complete M2 C6 Cell division Teacher B: Complete M4 C12 Communicable diseases. Complete M6 C19 Genetics (A2 topic)						
Assessment	PAG: 8.1, 1.3 Kerboodle Test: C2, C7 End of chapter Test: Introductory Assessment (microscopy and osmosis) M2 C2 Basic Components test M3 C7 Exchange surface and breathing test							PAG: 5.2, 2.1, 11.2 Kerboodle Test: C8 End of chapter Test: M3 C8 Transport in animals test.								PAG: 9.1, 9.2, 2.2 Kerboodle Test: C3, C9 End of chapter Test: M2 C3 Biological molecules test M3 C9 Transport in plants test						PAG: 4.1, 3.2 Kerboodle Test: C4, C10 End of chapter Test: M2 C4 Enzymes test M4 C10 Classification and evolution test						PAG: 5.1 Kerboodle Test: C5, C11 End of chapter Test: M2 C5 Plasma Membranes test M4 C11 Biodiversity test						PAG: 1.2 Kerboodle Test: C6, C12, C19 Year 12 Mock Exams						

- PAGs: These are practical assessments that will contribute to achieving the OCR Biology Endorsement.
- Kerboodle multiple choice test: Online MCQ knowledge tests which are automatically marked and individualised feedback given. Students write MRIs.
- End of chapter assessments: 45 minute exam papers completed in class. Feedback sheets used to identify WWW/EBIS and students write MRIs.

Year 13 Biology: Curriculum Overview 2025-26 (Further detail of the intent of the KS5 modules and how they build on our KS4 topics can be found in the KS5 Biology Spiral Curriculum document)

	AUTUMN 1							AUTUMN 2								SPRING 1						SPRING 2						SUMMER 1						SUMMER 2						
	1	2	3	4	5	6	7	1	2	3	4	5	6	7	8	1	2	3	4	5	6	1	2	3	4	5	6	1	2	3	4	5	6	1	2	3	4	5	6	7
Unit description	Teacher A: Complete M5 C13 Neurones Teacher B: Start M6 C20 Inheritance							Teacher A: Complete M5 C14 Hormones Complete M5 C15 Homeostasis Teacher B: Complete M6 C20 Inheritance Complete M6 C21 Manipulating Genomes Start M6 C22 Cloning and Biotech								Teacher A: Complete M5 C16 Plant Responses Start M5 C17 Energy for processes. Teacher B: Complete M6 C22 Cloning and Biotech Start M6 C23 Ecosystems						Teacher A: Complete M5 C17 Energy for processes. Start M5 C18 Respiration Teacher B: Complete M6 C23 Ecosystems Start M6 C24 Populations						Teacher A: Complete M5 C18 Respiration PAG catch up and Practical revision. Teacher B: Complete M6 C24 Populations PAG catch up and Biological Maths revision.													
Assessment	PAG: 12.2 Kerboodle Test: C13 End of chapter Test: September Mock (AS content) M5 C13 Neurones test							PAG: 11.1, 6.2, 10.1 Kerboodle Test: C14, C15, C20, C21 End of chapter Test: M5 C14 Hormones test M5 C15 Homeostasis test M6 C20 Inheritance test M6 C21 Manipulating Genomes test								PAG: 7.1 Kerboodle Test: C16, C22 Year 13 Mock Exams (AS and A2 content)						PAG: 6.3 Kerboodle Test: C17, C23 End of chapter Test: M5 C17 Energy for processes test M6 C23 Ecosystems test						PAG: 12.1 Kerboodle Test: C18, C24 End of chapter Test: M5 C18 Respiration test M6 C24 Populations test PAG test Biological Maths test													

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- End of chapter assessments: 45 minute exam papers completed in class. Feedback sheets used to identify WWW/EBIS and students write MRIs.

>Something More? KS5 Biology

Curriculums at BSS are designed to nurture not only intellectual and physical development but also the spiritual growth of students. This will be through:

Encouraging students to reflect on experiences, beliefs and purpose and to contemplate big Questions of Who am I? Why am I here? What is my purpose?

Highlighting extraordinary people, events, and discoveries that inspire awe or investigating how a sense of awe has led to breakthroughs and creativity.

Using art, music, literature, and nature to inspire awe, wonder, and spiritual insight.

Encouraging creative expression to connect with the inner self and the transcendent.

Fostering a sense of belonging and interconnectedness with others, nature, and the universe.

Encouraging self-awareness, emotional intelligence, and moral reasoning.

Promoting open-ended investigations rather than just seeking right answers.

Using hands-on activities, field trips and experiments to immerse students in learning and evoke wonder.

How does our curriculum do >Something More?

Encouraging self-awareness, emotional intelligence, and moral reasoning.

Evaluating and debating the use of scientific developments, such as IVF, use of stem cells, treatment of heart disease, classification of organisms, preventing and treating disease, genetic engineering and cloning, from many different points of view. Students use knowledge and moral reasoning to argue for or against a topic, whilst respecting other viewpoints.

Using art, music, literature, and nature to inspire awe, wonder, and spiritual insight.

Dissecting, staining and drawing the cells of a seemingly unexciting piece of celery, to highlight the complexity and beauty of the organisation of cells within plant tissues.

Using hands-on activities, field trips and experiments to immerse students in learning and evoke wonder.

Biology live trip. An exciting, thought-provoking day giving students a chance to hear 5 scientists who are working at the cutting edge of their specialisms.