

Year 10 Trilogy Science: KS4 Curriculum Overview: 2025-26 (Further detail of the intent of the KS4 modules and how they build on our KS3 topics can be found in the KS4 science spiral curriculum documents)

		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: Biology Module 1: cell biology Start Biology Module 2: Organisation Teacher B: Physics Module 1 Energy							Teacher A: Complete Biology Module 2: Organisation Start Module Biology Module 3: Disease Teacher B: Complete Physics Module 2: Electricity Start Chemistry Module 1: Atomic Structure and the periodic table								Teacher A: Complete Biology Module 3: Disease Teacher B: Complete Chemistry Module 1: Atomic Structure and the periodic table Start Chemistry Module 2: Structure bonding and properties						Teacher A: Complete Biology Module 4: Bioenergetics Teacher B: Complete Chemistry Module 2: Structure bonding and properties Complete Chemistry Module 3: Chemical Calculations						Teacher A: Complete Physics Module 3: Molecules and matter. Start Physics Module 4: Radioactivity. Teacher B: Start Chemistry Module 4: Chemical changes and electrolysis.						Teacher A: Complete Physics Module 4: Radioactivity. Start Biology Module 5: Response Teacher B: Complete Chemistry Module 4: Chemical changes and electrolysis Start Chemistry Module 5: Energy Rates and Equilibrium						
	Assessment/Formalised HW	Required practical: BRP1, BRP3, PRP1 Standardised homework: B1, P1 Kerboodle multiple choice tests: B1, P1 Kerboodle skill development tasks: B1.2, B2.4, P1.1, P2.4 End of module assessments: B1-2 Cell biology P1-3 Energy							Required practical: BRP4, BRP5, PRP3, PRP4 Standardised homework: B3, B4, P3, P4 Kerboodle multiple choice tests: B3, B4, P3, P4 Kerboodle skill development tasks: B3.5, B4.4, P4.2, P4.3 End of module assessments: B3-4 Organisation P4-5 Electricity								Required practical: Standardised homework: B5, B6, B7, C1, C2 Kerboodle multiple choice tests: B5, B6, B7, C1, C2 Kerboodle skill development tasks: B6.2, B6.1, C1.2, C1.6 End of module assessments: B5-7 Disease C1-2 Atomic structure, and the periodic table						Required practical: BRP6 Standardised homework: B8, B9, C3, C4 Kerboodle multiple choice tests: B8, B9, C3, C4 Kerboodle skill development tasks: B8.2, B9.1, C3.8, C3.3, C4.3 End of module assessments: B8-9 Bioenergetics C3 Structure bonding and properties C4 Calculations						Required practical: PRP5, CRP1, CRP3 Standardised homework: P6, C5, Kerboodle multiple choice tests: P6, C5, Kerboodle skill development tasks: C6.1, C6.3 Year 10 Mock Exams: Biology, Chemistry, Physics						Required practical: CRP4 Standardised homework: P7, C6, C7 Kerboodle multiple choice tests: P7, C6, C7 Kerboodle skill development tasks: C7.1, C7.4 End of module assessments: P7 Radioactivity C5-6 Chemical changes and electrolysis						

- Required practical: These are a requirement of the AQA GCSE course.
- Standardised homework: Past exam questions focusing on numeracy, literacy and working scientifically (Foundation/Higher versions)
- Kerboodle multiple choice test: Online MCQ knowledge tests which are automatically marked and individualised feedback given.
- Kerboodle skill development tasks: Online tasks on developing numeracy and literacy, linking to the topics being taught in lessons
- End of module assessments: 45 minute exam papers completed in class (Foundation/higher version)

Year 10 Triple Science: KS4 Curriculum Overview 2025-26 (Further detail of the intent of the KS4 modules and how they build on our KS3 topics can be found in the KS4 science spiral curriculum documents)

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	Unit description	Biology: Complete Module 1: Cell biology Chemistry: Start Module 1: Atomic structure and the periodic table Physics: Start Module 1 Energy							Biology: Start Module 2 Organisation Chemistry: Complete Module 1: Atomic structure and the periodic table Start Module 2: Structure and bonding Physics: Complete Module 1 Energy Start Module 2 Electricity								Biology: Complete Module 2 Organisation Start Module 3 Disease Chemistry: Complete Module 2: Structure and bonding Start Module 3: Chemical calculations Physics: Continue Module 2 Electricity						Biology: Continue Module 3 Disease Chemistry: Complete Module 3: Chemical calculations Start Module 4: Chemical changes and electrolysis Physics: Complete Module 2 Electricity Start Module 3 Molecules and Mater						Biology: Complete Module 3 Disease Start Module 4: Bioenergetics Chemistry: Continue Module 4: Chemical changes and electrolysis Physics: Complete Module 3 Molecules and Mater Start Module 4 Radioactivity						Biology: Complete Module 4: Bioenergetics Start Module 5: Response Chemistry: Complete Module 4: Chemical changes and electrolysis Start Module 5: Energy Rates and Equilibrium Physics: Complete Module 4 Radioactivity Start Module 5 Forces						
	Assessment/Formalised HW	Required practical: BRP1, BRP3, PRP1 Standardised homework: B1, B2, C1, P1 Kerboodle multiple choice tests: B1, B2, C1, P1 Kerboodle skill development tasks: B1.2, B2.4 End of module assessments: B1-2 Cell Biology Test							Required practical: BRP4, PRP2 Standardised homework: B3, C2, P2, P3 Kerboodle multiple choice tests: B3, C2, P2, P3 Kerboodle skill development tasks: C1.2, C1.6, P1.1, P2.4 End of module assessments: C1-2 Atomic Structure and the periodic table test P1-3 Energy test								Required practical: BRP5, PRP3 Standardised homework: B4, C3, P4 Kerboodle multiple choice tests: B4, C3, P4 Kerboodle skill development tasks: B3.5, B4.4, C3.8, C3.3 End of module assessments: B3-4 Organisation test C3 Structures, bonding and properties test						Required practical: BRP2, CRP2, PRP4 Standardised homework: B5, B6, C4, P5 Kerboodle multiple choice tests: B5, B6, C4, P5 Kerboodle skill development tasks: C4.3, P4.2, P4.3 End of module assessments: C4 Calculations test P4-5 Electricity test						Required practical: BRP6, CRP1, CPR3, PRP5 Standardised homework: B7, B8, C5, P6 Kerboodle multiple choice tests: B7, B8, C5, P6 Kerboodle skill development tasks: B6.2, B6.1, P6.3, P6.1 Year 10 Mock Exams: Biology, Chemistry, Physics						Required practical: CRP4 Standardised homework: B9, C6, C7, P7 Kerboodle multiple choice tests: B9, C6, C7, P7 Kerboodle skill development tasks: B8.2, B9.1, C6.1, C6.3, P7.9, P7.3 End of module assessments: B8-9 Bioenergetics C5-6 Chemical changes and electrolysis test. P7 Radioactivity test						

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- Kerboodle skill development tasks: Online tasks on developing numeracy and literacy, linking to the topics being taught in lessons
- End of module assessments: 45 minute exam papers completed in class (Foundation/higher version)

Year 11 Trilogy Science: KS4 Curriculum Overview 2025-26 (Further detail of the intent of the KS4 modules and how they build on our KS3 topics can be found in the KS4 science spiral curriculum documents)

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	Unit description	Teacher A: Complete Biology Module 5: Response Start Biology Module 6: Genetics Teacher B: Complete Chemistry Module 5: Energy changes, Rates and Equilibrium. Start Chemistry Module 6: Crude oil, fuels and chemical analysis							Teacher A: Continue Biology Module 6: Genetics Teacher B: Complete Chemistry Module 6: Crude oil, fuels and chemical analysis Complete Chemistry Module 7: Earths Atmosphere and resources Start Physics Module 5: Forces								Teacher A: Complete Biology Module 6: Genetics Start Biology Module 7: Ecology Teacher B: Continue Physics Module 5: Forces						Teacher A: Continue Biology Module 7: Ecology Teacher B: Complete Physics Module 5: Forces: Complete Physics Module 6: Waves Start Physics Module 7: Electromagnetism						Teacher A: Complete Biology Module 7: Ecology. Teacher B: Complete Physics Module 7: Electromagnetism												
	Assessment/Formalised HW	Required practical: BRP5, CRP5 Standardised homework: B10, B11, C8, C9 Kerboodle multiple choice tests: Kerboodle skill development tasks: B10.3, B11.2, C8.6, C8.1 End of module assessments: B10-11 Response Test C7-8 Energy changes, Rates and Equilibrium Test							Required practical: CRP6, CRP8 Standardised homework: B13, B14, C12, C13, C14 Kerboodle multiple choice tests: Kerboodle skill development tasks: C9.4, C9.3, C13.3, C14.2 Year 11 Mock Exams: Biology, Chemistry, Physics								Required practical: PRP6 Standardised homework: B15, B16, P8, P9 Kerboodle multiple choice tests: Kerboodle skill development tasks: B14.1, B15.1 End of module assessments: B13-15 Genetics Test						Required practical: BRP9, PRP7 Standardised homework: B17, P10, P12 Kerboodle multiple choice tests: Kerboodle skill development tasks: P9.4, P8.8 End of module assessments: P8-P10 Forces test P12-13 Waves test						Required practical: PRP8 Standardised homework: B18, P13, P15 Kerboodle multiple choice tests: Kerboodle skill development tasks: B16.1, B16.3, P13.5, P12.2, P15.1 End of module assessments: B16-18 Ecology test P15 Electromagnetism test												

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- Kerboodle skill development tasks: Online tasks on developing numeracy and literacy, linking to the topics being taught in lessons
- End of module assessments: 45 minute exam papers completed in class (Foundation/higher version)

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	Unit description	Biology: Complete Module 5: Responses Chemistry: Complete Module 5: Energy changes, Rates and Equilibrium. Start Module 6: Crude oil, fuels and chemical analysis. Physics: Continue Module 5 Forces							Biology: Start Module 6 Genetics Chemistry: Continue Module 6: Crude oil, fuels and chemical analysis. Physics: Complete Module 5 Forces Start Module 6 Waves								Biology: Complete Module 6 Genetics Chemistry: Complete Module 6: Crude oil, fuels and chemical analysis. Start Module 7: Earth's Atmosphere Physics: Continue Module 6 Waves						Biology: Start Module 7 Ecology Chemistry: Complete Module 7: Earth's Atmosphere Start Module 8: Using our resources. Physics: Complete Module 6 Waves Start Module 7 Electromagnetism						Biology: Complete Module 7 Ecology Chemistry: Complete module 8: Using our resources. Physics: Complete Module 7 Electromagnetism												
	Assessment/Formalised HW	Required practical: BRP7, BRP8, CRP5, PRP6 Standardised homework: B10, B11, B12, C8, P8, P9 Kerboodle multiple choice tests: B10, B11, B12, C8, P8, P9 Kerboodle skill development tasks: B10.3, B11.2, C8.6, C8.1 End of module assessments: B10-B12 Response Test C7-8 Energy Changes and Equilibrium Test							Required practical: CRP6, PRP7 Standardised homework: B13, C9, C10, P10, P11, Kerboodle multiple choice tests: B13, C9, C10, P10, P11, Kerboodle skill development tasks: P9.4, P8.8 Year 11 Mock Exams: Biology, Chemistry, Physics Christmas holiday flipped learning booklet: P16 Space								Required practical: CRP7, PRP8, PRP10 Standardised homework: B14, B15, C11, C12, P12, P13 Kerboodle multiple choice tests: B14, B15, C11, C12, P12, P13 Kerboodle skill development tasks: B14.1, B15.1, C9.4, C9.9 End of module assessments: B13-B15 Genetics Test C9-12 Crude oil and chemical analysis test.						Required practical: BRP9, CRP8, PRP9 Standardised homework: B16, C13, C14, P14 Kerboodle multiple choice tests: B16, C13, C14, P14 Kerboodle skill development tasks: C13.3, C14.2, P13.5, P12.2 End of module assessments: C13-14 Earth's Atmosphere and Resources Test P12-14 Waves Test Half term flipped learning booklet: B18 Biodiversity and Ecosystems						Required practical: BRP10 Standardised homework: B17, B18, C15, P15 Kerboodle multiple choice tests: B17, B18, C15, P15 Kerboodle skill development tasks: B16.1, B16.3, C15.2, C15.7, P15.1 End of module assessments: B16-B18 Ecology Test C15 Using our resources Test P15 Electromagnetism Test												

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- Kerboodle multiple choice test: Online MCQ knowledge tests which are automatically marked and individualised feedback given.
- Kerboodle skill development tasks: Online tasks on developing numeracy and literacy, linking to the topics being taught in lessons.
- End of module assessments: 45 minute exam papers completed in class (Foundation/Higher version)
- Flipped learning booklets: Independent learning homework.

>Something More? KS4 Science

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?

- 1) Highlighting extraordinary people, events, and discoveries that inspire awe or investigating how a sense of awe has led to breakthroughs/creativity.
Celebrating individuals within all sciences - through the developed understanding of atomic structure, evolution, DNA/genetics, electricity, Electromagnetism and climate change
- 2) Promoting open-ended discussions rather than just seeking right answers.
Ethical discussions around assisted reproduction, climate change and genetics. Encourages our students to consider both sides of the arguments and how science can be used ethically to allow informed discussions to be made
- 3) Using hands-on activities, field trips and experiments to immerse students in learning and evoke wonder.
Trips to Lectures on *Science in our Society*. Students explore how science is relevant and important to our understanding of the world and how societies are interdependent and have an equal role and impact
- 4) Encouraging self-awareness, emotional intelligence, and moral reasoning.
Evaluating and debating the use of scientific developments, such as IVF, from many different points of view. Students are encouraged to seek the true through a range of medias, view different sides and consider their own bias.