

**Subject: Biology**

The underlying intention of the Biology curriculum at Brook Sixth and Academy is to develop, in all students, the aspiration to move successfully and productively beyond the bounds of their own community, regardless of socio-economic backgrounds, in order to help them live highly successful adult lives. Our Biology curriculum aims to do this by being academically ambitious with a curriculum offering challenge, rigour and opportunity at key stages 4 and 5. Students will develop the powerful knowledgeto overcome common misconceptions about scientific processes and phenomena and the reasoning to show why the misconceptions cannot be true.

We aim to engender an appetite for lifelong learning whilst equipping students with the knowledge and skills essential for the 21st century. Biology is at the core of the world around us and requires students to be proficient with a rich subject disciplinary knowledge of the key concepts and analytical techniques required. This includes the**pursuit of excellence** and preparing our students as world **citizens of the 21st Century**. In order for this to be achieved our students need high levels of**literacy** and**numeracy**. The school recognises that **science** is both an exciting academic subject and an area where students can develop a sense of awe and wonder. Our Curriculum is designed to deliver the national curriculum in a way that builds knowledge, terminology and skills and delivers challenge from the beginning of year 10. Implementing the School vision of robust literacy and assessment policies, as well as effectively using the TEEP learning cycle, we aim to develop scientists with the knowledge and character to succeed in the modern world. Students are provided regular opportunities to engage in practical learning which provides aspiration with a STEM purpose.

At KS4 we show academic ambition by offering Single Science with all students studying Single Sciences. High aspirations are at the core of our KS4 Biology curriculum, our course enables all students to achieve and the potential to take Biology and Science further into KS5 preferably to continue at Brook Sixth Form and Academy. Regardless of pathway, the focus is on developing students who have confidence in using key terminology and applying their knowledge and skills in unfamiliar scenarios. This resilience is an important skill not only in Science but in life in general.

We aim to provide a continuum of learning with coherently planned and sequenced lessons which provide our students with the knowledge and cultural capital they need to succeed. Accessibility is a key aspect across all key stages through a curriculum which is equitable and aspirational and aims to provide opportunities for the next generation to be better equipped to deal with the challenges of the modern world. Students have opportunities to go on day and residential trips to support their learning through their time at Brook Sixth Form and Academy, this allows all students to have equal opportunity of experiencing Science in action.

At KS5 our pupils have the option to study the AQA Specification in A-Level Biology. Covering all disciplines of Biology this course allows our students to further their studies with the view to gaining employment or moving on to university at the end of their course. This underlines our philosophy of igniting the future of our students. Our ambition is to develop skilled, critical thinkers who could apply their skills to any field and not specifically Biology. Our students have the opportunity to compete in the National and International Biology competitions providing them with a further opportunity to challenge themselves.