WLA Biology Vision

Biology helps us understand who we are, how our bodies function, and how life on Earth is interconnected. It provides insight into medicine, conservation, genetics, and the environment. At WLA, we highlight Biology as a source of inspiration and responsibility: inspiring curiosity about life while equipping students with the knowledge and skills to address challenges such as climate change, global health, and biodiversity loss.

Year 13
Practice with extended A-level essays and past-paper stretch questions.
Independent research tasks on synoptic themes (homeostasis + ecosystems)

Year 12
Preparation for British Biology Olympiad
Wider reading list (journals like Nature New Scientist)
University-style lab reports with statistical analysis
Extended practical design: planning independent experiments
Stretch through exam-style questions that require cross-topic links

Year 11
Higher-order exam questions (synoptic across topics)
Challenge revision homework with retrieval questions from year 9-10
Opportunities to lead small-group revision or debate on ethics around stem cell research

Year 10
Higher-demand exam questions (extended 6 markers and multi-step data questions). Additional practice with practical data interpretation (graphs, rates, error analysis).

Year 9
Use of case studies in ecology/disease with longer-response questions/ extension tasks to evaluate ethical issues in biotechnology and medicine
Independent stretch homework such as short research summaries on new disease or conservation

Year 8
More complex data analysis in variation and healthy topics (interpreting graphs, identifying anomalies)
Additional written questions linking diet and disease to wider health issues
Stretch questioning around respiration/photosynthesis connections

Year 7
Extension questions in lessons that link cells to real-life applications
Independent stretch tasks using microscopes: drawing to scale, identifying inisial cell types
Challenge writing frames for Big Write tasks with higher-level vocabulary