




Biology

Year 12 at Walford

Her Way

You will develop your understanding about the diversity of life as it has evolved, the structure and function of living things, and how they interact with their own and other species and their environments. You will apply your understanding of the interconnectedness of biological systems to evaluate the impact of human activity on the natural world. You will also inquire into and explain biological phenomena and draw evidence-based conclusions from your investigations into biology-related issues, developments, and innovations. You will study DNA and proteins, cells as the basis of life, homeostasis and evolution.

**SACE Stage 2
20 Credits**

 Engage <i>Skills</i>	 Extend <i>Knowledge</i>	 Enrich <i>Experiences</i>
<ul style="list-style-type: none"> Apply science inquiry skills to deconstruct a problem and design and conduct biological investigations, using appropriate procedures and safe, ethical working practices Obtain, record, represent, analyse, and interpret the results of experimental investigations Evaluate procedures and results, and analyse evidence to formulate and justify conclusions Develop and apply knowledge and understanding of biological concepts in new and familiar contexts Explore and understand science as a human endeavour Communicate knowledge and understanding of biological concepts, using appropriate terms, conventions, and representations. 	<ul style="list-style-type: none"> DNA and proteins Cells as the basis of life Homeostasis Evolution 	<ul style="list-style-type: none"> Uni SA STEM opportunities - STEM Girls on Campus – others as they arise via STEM Girls Academy Science Olympiads (optional) Oliphant Science Awards (optional) National Youth Science Forum (optional) STEM Tour (Optional – offered every two years)

 Assessments/Outcomes	 Pathways
<p>Investigations Folio (30%), Skills and Applications Tasks (40%) External examination (30%).</p>	<p>Career Pathways: Doctor, Nurse, Midwife, Dentist, Veterinarian, Audiologist, Nutritionist, Dietician, Chiropractor, Physiotherapist, Geneticist, Occupational Therapist, Optometrist, Paramedic, Pharmacist, Podiatrist, Speech Pathologist, Oncologist, Sports Scientist, Agriculturalist, Aquaculturalist, Fisheries Scientist, Horticulturalist, Pathologist, Oenologist, Microbiologist, Zoologist, Botanist, Mycologist, Marine Biologist, Ecologist, Biomedical Engineer.</p>