

## Semester 1 Overview 2022

### 12 Biology

Term	Topic	Assessment
1	<p><b>Unit 3: Biodiversity and the interconnectedness of life</b> Students will:</p> <p>Explore the ways biology is used to describe and explain: the biodiversity within ecosystems; a range of biotic and abiotic components; species interactions; adaptations of organisms to their environment; principles of population dynamics; and how classification systems are used to identify organisms and aid scientific communication. An understanding of the structure of ecosystems, the processes involved in the movement of energy and matter in ecosystems and how environmental factors limit populations is essential to appreciate the dynamics, diversity and underlying unity of these systems. Students investigate the interactions within and between species, and the interactions between abiotic and biotic components of ecosystems. They also investigate how measurements of abiotic factors, population numbers, species diversity and descriptions of interactions between species can form the basis for spatial and temporal comparisons between ecosystems. They examine and analyse data collected from fieldwork to understand the interconnectedness of organisms, the physical environment and the impact of human activity.</p>	<p><b>IA2 (Experimental Investigation)</b> <b>Due – Week 12 (Week 1 Term 2)</b></p>
2	<p><b>Unit 4: Heredity and continuity of life</b> Students will:</p> <p>Explore the ways biology is used to describe and explain the cellular processes and mechanisms that ensure the continuity of life. An understanding of the processes and mechanisms of how life on Earth has persisted, changed</p>	<p><b>IA3 (Research Report)</b> <b>Due - Week 22 (term 2 week 5)</b></p>
		<p><i>Assessment will be conducted in term</i> <b>3</b></p>

# ALBANY CREEK STATE HIGH SCHOOL



	and diversified over the last 3.5 billion years is essential to appreciate the unity and diversity of life.	
--	-------------------------------------------------------------------------------------------------------------	--