

Year 7	<p>Science</p> <p>Investigate the role of classification in ordering and organising the diversity of life on Earth and use and develop classification tools including dichotomous keys (AC9S7U01)</p> <p> Use models, including food webs, to represent matter and energy flow in ecosystems and predict the impact of changing abiotic and biotic factors on populations (AC9S7U02)</p>	<p>Geography</p> <p>Classification of environmental resources and the way that water connects and changes places as it moves through environments (AC9HG7K01)</p>	<p>Design & Technologies</p> <p>  Analyse how food and fibre are produced in managed environments and how these can become sustainable (AC9TDE8K04)</p>
	<p>Year 8</p> <p>Geography</p> <p> The location and distribution of Australia's distinctive landscapes and significant landforms (AC9HG8K02)</p>	<p>Design & Technologies</p> <p>  Analyse how food and fibre are produced in managed environments and how these can become sustainable (AC9TDE8K04)</p>	
Skills	<p>Science</p> <p>Select and use equipment to generate and record data with precision, using digital tools as appropriate (AC9S7I03)</p> <p>Select and construct appropriate representations, including tables, graphs, models and mathematical relationships, to organise and process data and information (AC9S7I04)</p>	<p>Geography</p> <p>Collect, organise and represent data and information from primary research methods, including fieldwork and secondary research materials, using geospatial technologies and digital tools as appropriate (AC9HG7S02/AC9HG8S02)</p> <p>Interpret and analyse geographical data and information to identify similarities and differences, explain patterns and trends and infer relationships (AC9HG7S03/AC9HG8S03)</p>	<p>Identify a strategy for action in relation to environmental, economic, social or other factors, and explain potential impacts (AC9HG7S05/AC9HG8S05)</p>



Food Webs
Build a Tasmanian food web to explore how energy flows through forest ecosystems.

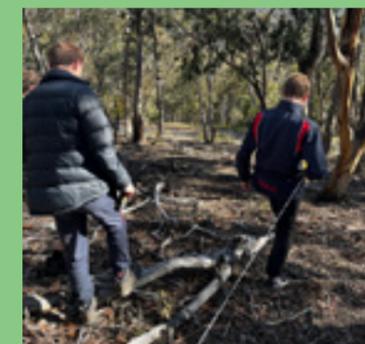


Invertebrate Classification
Discover the diversity of invertebrate species found in rotting logs using a dichotomous key. Understand the important role decomposers play in forest ecosystems.

Year 9	<p>Science</p> <p> Represent the carbon cycle and examine how key processes including combustion, photosynthesis and respiration rely on interactions between Earth's spheres (AC9S9U03)</p>	<p>Geography</p> <p>The distribution and characteristics of biomes as regions with distinctive climates, soils, vegetation and productivity (AC9HG9K01)</p> <p> The effects on environments of human alteration of biomes to produce food, industrial materials and fibres (AC9HG9K02)</p>
	<p>Year 10</p> <p>Geography</p> <p> The human-induced changes that challenge the sustainability of places and environments (AC9HG10K01)</p> <p> The environmental world views of people and their implications for environmental management (AC9HG10K02)</p>	<p>Design & Technologies</p> <p> First Nations Australians' approaches to custodial responsibility and environmental management in different regions of Australia (AC9HG10K03)</p> <p> Causes and effects of a change in an identified environment at a local, national or global scale, and strategies to manage sustainability (AC9HG10K04)</p>
Skills	<p>Science</p> <p>Select and use equipment to generate and record data with precision to obtain useful sample sizes and replicable data, using digital tools as appropriate (AC9S9I03)</p> <p>Select and construct appropriate representations, including tables, graphs, descriptive statistics, models and mathematical relationships, to organise and process data and information (AC9S9I04)</p>	<p>Geography</p> <p>Collect, represent and compare data and information from primary research methods, including fieldwork and secondary research materials, using geospatial technologies and digital tools as appropriate (AC9HG9S02/AC9HG10S02)</p> <p>Develop and evaluate strategies using environmental, economic or social criteria; recommend a strategy and explain the predicted impacts (AC9HG9S05/AC9HG10S05)</p>



Data Collection - Forest Ecosystems
Use scientific equipment and field work skills to collect abiotic and biotic data in a forest ecosystem.



Vegetation Transect
Conduct a transect to determine the distribution, abundance and size of dominant tree species in a forest environment.