



Catchment Connections

Year 7 Science & Geography

Department of Education

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Our vision is for a community that cares for self, others and the environment to achieve enough for all forever.

The Big Idea: Understanding local water flows and issues.

Students' Blanket Role: Water researchers

Program Snapshot

The Catchment Connections program implements elements of the Australian Curriculum for Science and Geography as well as the Cross Curriculum Priority: *Sustainability*. Students investigate water flow and water quality in their local catchment.

Curriculum – Year 7 Science & Geography

Achievement Standards (extract)	<p>Science - Students “analyse how the sustainable use of resources depends on the way they are formed and cycle through Earth systems.”</p> <p>Geography - Students “describe geographical processes that influence the characteristics of places and how the characteristics of places are perceived and valued differently. They explain interconnections between people and places and environments and describe how these interconnections change places and environments. They describe alternative strategies to a geographical challenge referring to environmental, economic and social factors.”</p>
Content Descriptions/Elaborations	<p>Science</p> <p>ACSSU116: Some of Earth’s resources are renewable, including water that cycles through the environment, but others are non-renewable.</p> <ul style="list-style-type: none">• investigating factors that influence the water cycle in nature• exploring how human management of water impacts on the water cycle <p>Geography</p> <p>ACHGK038: The way that flows of water connects places as it moves through the environment and the way this affects places.</p> <ul style="list-style-type: none">• explaining how the movement of water through the environment connects places• investigating the environmental, economic and social uses of water and the effects of water as it connects people and places <p>ACHGK045: The influence of environmental quality on the liveability of places.</p> <ul style="list-style-type: none">• explaining the importance of water quality to the liveability of places, now and into the future• investigating the concept of environmental quality and surveying the environmental quality of their local area and its effect on liveability



Excursion – Program

Main Sessions occur at the watercourse local to the school and further down the catchment.

Topics include:

- Where does local water flow?
- Water use in our society
- The significance of water quality for health
- Factors affecting water quality
- The interconnectedness of water, the environment and human society

Activities may include:

- Exploration of water flow in school grounds
- Interpretive walk along local watercourse
- Biotic and abiotic water quality assessment in the local catchment
- Bird watching
- Discussing traditional Indigenous water use and management



Conclusion — Call to Action

Students discuss practical measures they can take to help solve problems associated with our use and management of water in the local area.

Post-visit consolidation ideas

Students could map water flows in the local catchment, including the main water management facilities and processes.

Cross-Curriculum Priority — Sustainability

This priority addresses the ongoing capacity of Earth to maintain life.

Main organising ideas covered:



Systems O1.2 All life forms, including human life, are connected through ecosystems on which they depend for their wellbeing and survival.

Systems O1.3 Sustainable patterns of living rely on the interdependence of healthy social, economic and ecological systems.

World Views O1.5 World views are formed by experiences at personal, local, national and global levels, and are linked to individual and community actions for sustainability.

Futures O1.7 Actions for a more sustainable future reflect values of care, respect and responsibility, and require us to explore and understand environments.

Amaroo EEC pedagogy

Amaroo is guided by the Place-Responsive Pedagogy, in particular Learning Beyond the Classroom.

This particular program uses the strategies of **Learning By Doing**, **Deep Understanding** and **Problem-based Curriculum**.

For more information please refer to Amaroo's [Pedagogical Framework](https://amarooec.eq.edu.au/supportandresources/formsanddocuments/documents/pedagogical-framework.pdf) (amarooec.eq.edu.au/supportandresources/formsanddocuments/documents/pedagogical-framework.pdf)