1. Educator resources

**Biological Parameters (Module 3) (book)**
2004, Australian Government  
Middle Years+

This module provides guidance and technical support to the Waterwatch community monitoring network engaged in biological monitoring. It includes background on macro-invertebrates and habitat assessment; methodologies and recording sheets. It forms part of the Waterwatch Australia National Technical Manual.

**A Guide to minibeasts of the wetland (book and CD)**
2002, Urrbrae Wetland Education Centre  
Primary Years+

The program can be loaded into Powerpoint and used as an interactive aid to identify the majority of macro-invertebrates that are likely to be caught in the Adelaide region. The files can also be modified to suit your needs, and the book contains all of the same information.

2. Student resources

**Critter Catalogue: a guide to the aquatic invertebrates of South Australian inland waters (folder)**
2004, EPA/Waterwatch SA  
Middle Years+

“The Critter Catalogue is an information guide to the aquatic invertebrates of South Australia’s inland waters. This guide is aimed at Waterwatch staff and participants, teachers, secondary students and community groups.”

*Also available online as a pdf.*
Now and Then: informative cards of some aquatic larval and adult invertebrates that depend on Victorian rivers (flip cards)
Corangamite Waterwatch
Primary Years+

“This photographic card deck and accompanying information has been produced as a versatile visual aid for aquatic invertebrate identification in the field. These cards aim to portray the diversity between and within common groups of organisms rather than offering formal classification. Although juvenile and adult forms are represented, they do not necessarily belong to the same family/species.” Most of these species are also common to SA waters.

Australian Guide to Pondlife (book)
Early - Primary Years

Set of 10 copies, or available as a single copy. “Ponds and streams are full of ferocious hunters, timid swimmers and armour-plated monsters. Once you have rummaged and probed your way into this secret, hidden world you will want to venture back again and again to make new discoveries. This book describes ponding equipment, methods and safety plus providing an identification guide.” Full of colour photos and facts about critters.

Colour guide to invertebrates of Australian inland waters (book)
1997, CRC for Freshwater Ecology
Primary Years+

“The book is a field guide with 200 colour photographs of the more easily recognisable invertebrates of Australian inland waters. The book lists the groups of aquatic organisms and provides some taxonomic and ecological information to help identify specimens to the order/family level, and in many cases to a lower level.”

Critters - Where they wriggle (DVD)
2009, Urrbrae High School/Urrbrae TAFE/NRM Education (Central), 8mins
Early Years+

Created by students, for students, Critters – Where They Wriggle is a short (8 mins) video that introduces the concepts of biological monitoring of freshwater systems. Using aquatic macro invertebrates – critters, water bugs and mini-beasts – students can undertake a simple, cheap and effective assessment of the health of a local waterway. All of the script writing, camera work, on-screen presentation, voice-over narration and editing was produced by students from Urrbrae High School with the assistance of David Frahm, a student from Urrbrae TAFE, and staff from NRM Education and the Urrbrae Wetland.
Waitakere's Underwater Life (video)  
2002, Waitakere City Council, 10mins  
Early Years+  

“This video takes us on a discovery of macroinvertebrates found in Waitakere’s streams. Stephen and Ruby give us a close-up look at a variety of these ‘bugs’, filmed live under binocular microscopes, and explain why bugs are important to our waterways.’ A NZ film which is general enough in scope to be applicable to Australia.

4. Posters and identification charts

Aquatic Macroinvertebrate Identification Chart (A3 poster - one side)  
2007, NRM Education  
Early Years+  

A set of 15 laminated ID charts to assist young groups, or those new to biological monitoring, identify the common types of freshwater aquatic macroinvertebrates found around Adelaide. Grouped by similar behaviours or features and including SIGNAL pollution index scores.

Aquatic Macroinvertebrate Identification Key (A3 poster - double sided)  
2007, NRM Education  
Primary Years+  

A set of 15 laminated ID charts featuring a key based on physical characteristics generally visible under 10x magnification. Key behavioural characteristics or identifying features, as well as SIGNAL2 system of sensitivity grades are included.

Know your beasties! A practical guide to some of the aquatic invertebrates of south-east Australia (flip-chart)  
2001, CRC for Freshwater Ecology/Waterwatch Victoria  

“This Waterwatch Victoria Reference Guide is to help your efforts at identifying your aquatic macroinvertebrates while out in the field. It is a quick and easy way to identify your animals..”

5. Books

Biological Parameters (Module 3)  
2004, Australian Government  
Middle Years+  

This module provides guidance and technical support to the Waterwatch community monitoring network engaged in biological monitoring. It includes background on macro-invertebrates and habitat assessment; methodologies and recording sheets. It forms part of the Waterwatch Australia National Technical Manual.
The Waterbug Book (book)
2002, CSIRO Publishing

“The Waterbug Book contains an easy-to-use key to all macroinvertebrate groups and includes high quality colour photographs of live specimens. It provides a wealth of basic information on the biology of macroinvertebrates and describes the SIGNAL method for assessing river health. The book is full of practical tips about where to find various animals and what their presence indicates about their environment.”

6. Games

A Bug’s Life: Bugs Trumps (kit)
2007, NRM Education
Middle Years

The game is based on the traditional “Top Trumps” card game, with 48 playing cards featuring general information as well as max. size, no. of species worldwide and in Australia, feeding strategy and pollution score. The teacher resource pack contains examples of other games and activities and there are 10 A3 identification keys to support classification and identification tasks.

A Bug’s Life: Junior Bug Trumps (kit)
2007, NRM Education
Early - Primary Years

This set of 48 playing cards, 4 of each critter, can be used to play the classic card games Go Fish, Snap and Memory, and there are accompanying teacher notes. Each card lists name, animal type and maximum size. A copy of an A3 Junior and Advanced identification chart are included to support classification activities.

A Bug’s Life: Lifecycle (kit)
2007, NRM Education
Primary - Middle Years+

The 32 playing cards are based on the lifecycles of four common macro invertebrates - dragonflies, mosquitoes, water mites and freshwater snails. The teacher resource pack contains suggestions for activities based on the classic games of snap, go fish and memory as well as life cycles.

Bug Panels (kit)
2004, NRM Education
Early - Primary Years

Four laminated A2 panels which join to create a healthy and polluted waterway; 24 laminated aquatic invertebrates with information on the back about where they live, what they eat and whether they are sensitive or tolerant to pollution or habitat degradation; and teacher notes.

Notes

There are identification charts available for freshwater macroinvertebrates to download from this link http://www.naturalresources.sa.gov.au/adelaidemtloftyranges/education/for-educators/plants-and-animals/freshwater-environments
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