



COAST AND MARINE CATCHMENTS CONNECTIONS

What is a catchment?

Discover how a natural catchment works.

What services do catchments provide?

Catchments are environmental systems with physical, chemical and biological interactions involved.

	Description	Resources covering the topic
Resource *	What is a catchment? Explanation and web interactives	KESAB Patawalonga and Torrens Waterwatch http://www.cwmb.sa.gov.au/kwc/section1/1-01.htm
Resource *	What is a catchment? TO BE DONE	Queensland Government http://www.env.qld.gov.au/environment/environment/coast/cc.html#Catchment%20areas%20are%20important
Resource *	For maps, definitions, plans, community projects, local catchment information	South Australian Catchment Water Management Boards http://www.catchments.net/
Resource *	Downloadable poster which describes the catchment as an interconnected system	Queensland Government http://www.nrm.qld.gov.au/resource/net/education/modules/junior_secondary/catchment_management/resource_sheet_13.html
Resource *	How the River Murray was formed Runs through the stages of a catchments development	River Murray Urban Users Committee http://www.murrayusers.sa.gov.au/RMformed.htm#The%20River%20Murray%20and%20the%20Murray-Darling%20Basin
Resource **	Coastal waters Coastal waters as part of a system of interconnected water bodies	New South Wales Government http://www.epa.nsw.gov.au/soe/soe2000/bw/
Activity EY	What about catchments? Sandpit activity	KESAB Patawalonga and Torrens Waterwatch Curriculum Resource http://www.cwmb.sa.gov.au/kwc/main.htm



Activity EY	Act a catchment Go to Waterwatch section on the web site Hands on activity	Onkaparinga Catchment Water Management Board http://www.onkaparinga.net/
Activity EY	Act a catchment Is your catchment up the creek?	North Adelaide Barossa Waterwatch http://www.nab.waterwatch.org.au
Activity PY	What is a catchment? Explanation and web interactives	KESAB Patawalonga and Torrens Waterwatch http://www.cwmb.sa.gov.au/kwc/section1/1-01.htm
Activity PY	For maps, definitions, plans, community projects, local catchment information	South Australian Catchment Water Management Boards http://www.catchments.net/
Activity PY	Catchment crusaders Interactive web activity	KESAB Watercare Club http://www.cwmb.sa.gov.au/kwc/interactive/cc/index.htm
Activity PY	What about catchments? Sandpit activity	KESAB Patawalonga and Torrens Waterwatch Curriculum Resource http://www.cwmb.sa.gov.au/kwc/main.htm
Activity PY	Act a Catchment? Hands on activity	Onkaparinga Catchment Water Management Board http://www.onkaparinga.net/
Activity PY	Act a catchment Is your catchment up the creek?	North Adelaide Barossa Waterwatch http://www.nab.waterwatch.org.au
Activity PY	The River Murray story Classroom session looking at catchments and land uses. Following a story about the river as it travels from the source to the sea. Offered in Upper and Lower Murray Regions	River Murray Waterwatch http://www.sa.waterwatch.org.au/involved.htm - map http://www.lm.net.au/%7Esacare/waterwatch/index.html
Activity MY	Catchment crusaders Interactive web activity. Many interactive activities to explore catchments	KESAB Watercare Club http://www.cwmb.sa.gov.au/kwc/interactive/cc/index.htm
Activity MY	For maps, definitions, plans, community projects, local catchment information	South Australian Catchment Water Management Boards http://www.catchments.net/



Activity MY	Map and interactive tour of the Murray Darling Basin	Murray Darling Basin Commission http://www.mdbc.gov.au/tour/tour.htm
Activity MY SY	Watershed Works 1: Watershed model Lesson plan to develop an understanding of how watersheds develop naturally	Surfrider http://www.surfrider.org/RTB_Beachology/WW_Unit1.pdf
Activity MY SY	Watershed Works 2: Manmade features Lesson plan to introduce the impact of human activity	Surfrider http://www.surfrider.org/RTB_Beachology/WW_Unit2.pdf
Activity SY	Catchment crusaders Interactive web activity. Many interactive activities to explore catchments	KESAB Watercare Club http://www.cwmb.sa.gov.au/kwc/interactive/cc/index.htm
Activity SY	For maps, definitions, plans, community projects, local catchment information	South Australian Catchment Water Management Boards http://www.catchments.net/



The water cycle

Water moves above ground, underground and through the atmosphere.

What is the role of the ocean in the water cycle?

Discover how the built water cycle has changed the way in which water moves through the terrestrial environment to the sea.

	Description	Resources covering the topic
Resource *	Earth's water topics To look carefully at the water cycle you may need to go no further than this site	United States Geological Survey http://www.ga.usgs.gov/edu/mearth/all.html
Resource *	Water wonders; the water cycle Comprehensive look at the components of the water cycle	Wisconsin Department of Natural Resources http://www.dnr.state.wi.us/org/caer/ce/eeek/earth/groundwater/watercycle.htm
Resource *	Water facts of life Fun and serious facts about water	Environmental Protection Agency United States of America http://www.epa.gov/ogwdw/kids/waterfactsoflife.html
Resource *	Water cycle resource sheet Downloadable PDF file for printing	Queensland Government http://www.nrm.qld.gov.au/resource_net/education/modules/primary/water_cycles_catchments/resourcesheet1.html
Resource **	Water science for schools Comprehensive site with activities, quizzes, lessons, and facts in a well organised format. Follow a drip through the water cycle	United States Geological Survey http://www.ga.usgs.gov/edu/mearth.html
Activity EY	Water soaks See how water soaks into different types of surfaces and make applications to the urban environment	KESAB Patawalonga and Torrens Waterwatch http://www.cwmb.sa.gov.au/kwc/section1/1-15.htm



Activity EY PY	Extensive resources for primary schools in water education including water cycle activities	Gould League http://www.gould.edu.au/
Activity EY PY	Lots of classroom activities that stress the limited nature and importance of water in the world	National Geographic.com http://magma.nationalgeographic.com/education/gaw/frwater/frwater_k4_teacher.html
Activity PY	Water wonders: the water cycle Comprehensive look at the components of the water cycle	Wisconsin Department of Natural Resources http://www.dnr.state.wi.us/org/caer/ce/eeek/earth/groundwater/watercycle.htm
Activity PY	Build a water cycle Demonstrates the role of the sun in the water cycle	Oceans Alive http://www.mos.org/oceans/planet/watercycle.html
Activity PY MY	A series of science experiments that demonstrate components of the water cycle. Comprehensive site	Soda Bottle Hydrology United States Department of Energy, Office of Environmental Management http://www.em.doe.gov/soda/index.html
Activity MY	Every drop counts Extensive resources for secondary schools in water education including developing plans for dealing with water issues in the school	Gould League http://www.gould.edu.au/
Activity MY SY	Water science for schools Comprehensive site with activities, quizzes, lessons, facts in well organised format. Follow a drip through the water cycle	United States Geological Survey http://www.ga.usgs.gov/edu/mearth.html



Interdependence of environments from the top of catchments to the coast and marine environments

Coast and marine environments are connected to the whole of catchments through biological, physical and chemical processes.

Environmental changes in catchments often have implications for coast and marine environments.

	Description	Resources covering the topic
Resource *	The Coast Kit: Interconnectedness between land and sea Summary of how physical processes of the land and sea affect one another	Victorian Government http://www.nre.vic.gov.au/coasts/coastkit/ch1/
Resource **	Catchments and reefs: the land-sea connection Summary of the main environmental issues	University of Queensland http://www.reef.edu.au/contents/ps/fr_catch.html
Activity PY MY SY	Virtual catchment crawl PowerPoint presentation - virtual reality tour brings a local river system into the comfort of your classroom. Waterwatch officer assists	North Adelaide and Barossa Catchment Water Management Board http://www.nab.waterwatch.org.au
Activity PY MY SY	Catchment tour Actively engages students in an exploration of the features of their catchments	KESAB Patawalonga and Torrens Waterwatch http://www.cwmb.sa.gov.au/kwc/main.htm
Activity PY MY SY	Catchment crawls Actively engages students in an exploration of the features of their catchments	Onkaparinga Catchment Water Management Board http://www.onkaparinga.net/