



Education program 2021 information pack

Find out how you can work with the education team in 2021 to add value to your lessons and involve your students in conserving and caring for our local landscapes.

Education program 2021

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Education program **overview**

Learn about our programs, sessions
and what we can offer to support
your school.

Education program overview

What do we do?



Education program vision

The Murraylands and Riverland Landscape Board's Education program offers opportunities for young people, educators and community members to get out into their local environment and learn how to manage natural resources sustainably.

The program works towards enabling people to develop a love for, and value of their local landscapes.

The Education team is passionate about the program and working with schools and community to develop strong connections.

Our goals

Create positive behaviour change and build leadership capacity through increased knowledge, skills and participation to manage local landscapes.

Provide opportunities for young people to connect with nature.

Build a community that is well informed, empowered to take action and has the ability to adapt to change.

Back to basics

The Education team continue to update and improve the program based on feedback from educators and students, ensuring relevant and engaging sessions that fit with the curriculum are offered.

Programs and sessions will be offered each term focusing on the following themes:

Term one: Biodiversity

Term two: Sustainable farming

Term three: Pest plants and animals

Term four: Water

If the class or school is already undertaking an environmental theme or unit of work (outside these theme areas), contact an Education officer to talk about how the Education program can assist and add value to the lessons.

Please read the information pack for more information on our programs and what is on offer each term. You will also learn more about how the Education team can help and what opportunities there are for teachers and students in 2021.

This project is supported by the Murraylands and Riverland Landscape Board through funding from the landscape levies.



Education program overview

Questions



Can you come to my classroom?

Yes, the Education team work between more than 100 pre, primary and high schools throughout the Murraylands and Riverland region.

School visits are assessed on current workload, program priorities, and values.

A visit to a class or school already actively planning an environmental topic will take priority over a school wanting a one-off visit.

Can you come to my classroom next week?

The best way to work with the Education team is to plan ahead, give plenty of notice (three-four weeks lead time is best) and work with the team to add value to what you are already doing.

Education officers have great ideas, knowledge, skills and hands-on activities and use those to make classroom and outdoor learning interesting!

Students can also join existing Education programs which offer leadership and hands-on learning opportunities.

How much does it cost?

There is no cost to the school. This program is supported by the Murraylands and Riverland Landscape Board through funding from the landscape levies.

I don't have time to add environmental education to my already busy schedule.

Environmental education, sustainability or learning about conserving and caring for our local landscapes does not have to be additional learning or extra work. It fits easily into many areas of the curriculum.

The teacher resources and activities are set out and easy to run yourself.

See pages 28-30 for information about how the program links with the curriculum.

I don't know how to teach about; birds, frogs, water resources, waste, sustainability, fish, threatened animals, waterbugs. Do you have any ideas?

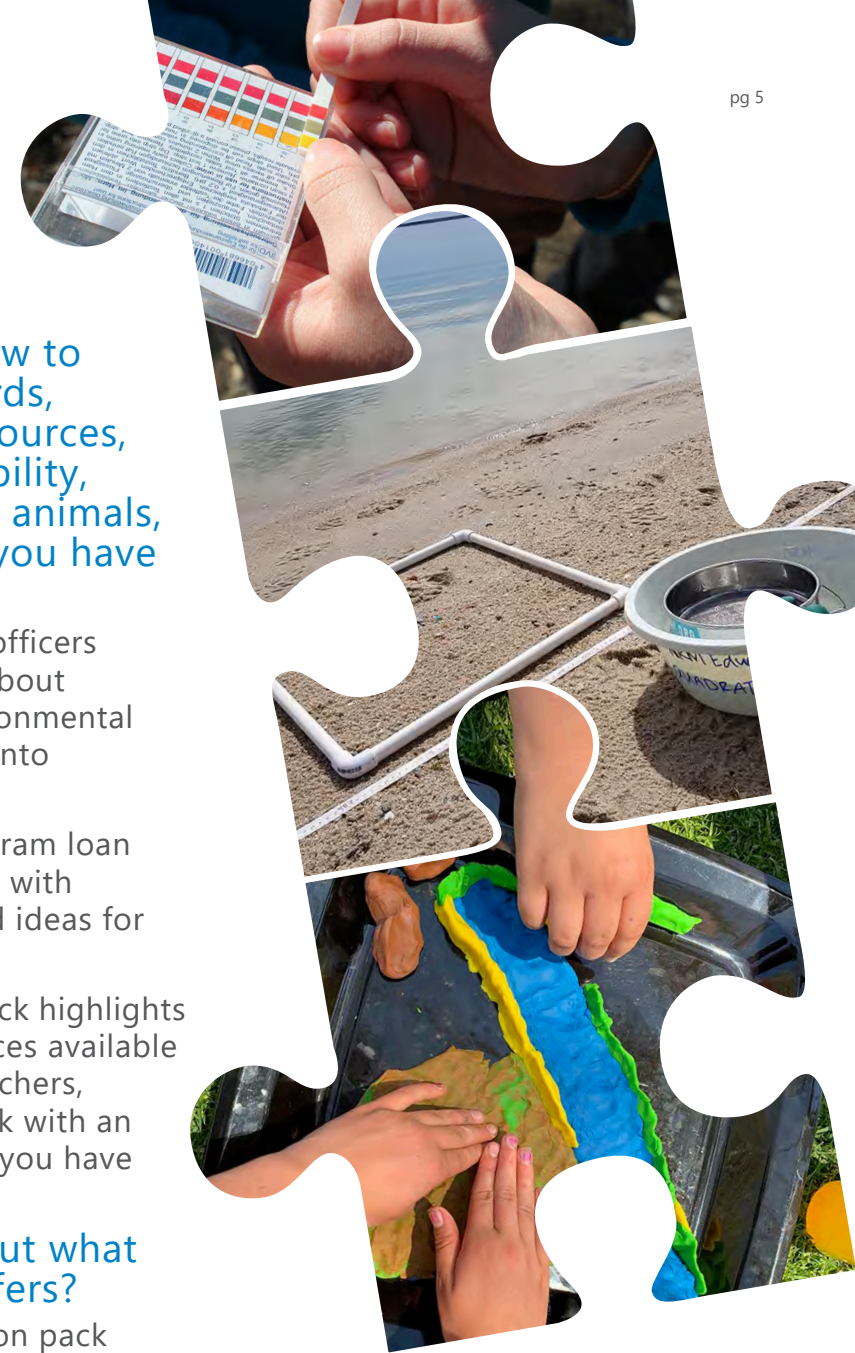
Yes, the Education officers have lots of ideas about incorporating environmental topics and themes into classroom learning.

The Education program loan kits are easy to use, with realistic models and ideas for hands-on activities.

This information pack highlights some of the resources available and support for teachers, but be sure to speak with an Education officer if you have ideas or questions.

How do I find out what the program offers?

Read this information pack which outlines everything and to stay up to date, request to be added to our email list. Just email cindy.kakoschke@sa.gov.au



Education program overview

Meet the team



Riverland



Cindy Kakoschke

Berri

Cindy grew up in the Riverland and while she left for a time to pursue a graphic design dream, the smell of rain on the red dirt and the gleam of the river brought her home.

Passionate about the Riverland region and getting kids outside to experience their local environment, Cindy hopes to inspire young people to appreciate their backyard and learn how to preserve what we have for future generations.

Murraylands



Christina Liapis

Murray Bridge

Christina has been nature-crazy her entire life. The camera roll on her phone contains more pictures of plants than of people!

She is passionate about all things 'eco', and is completely fascinated by Australian ecosystems.

Christina loves introducing people to nature as much as she loves spending time in it, and hopes to inspire the dreamers, innovators, and conservationists of the future.

Team support



Karen Bishop

We are very pleased to have Karen Bishop from Riverland West Landcare assisting and supporting our team again this year.

Karen has wonderful experience, knowledge and enthusiasm for involving young people and community members in conserving and caring for our landscapes.

Karen will be supporting programs and delivering education sessions throughout the region.



Young Environmental Leaders YEL Program



The YEL Program is open to Year 5-7 students and provides students with fantastic environmental and leadership outcomes. Forums are held once per term. Student representatives from your school are invited to attend forums throughout the year.

YEL forums are based on the four Education program themes and will be held in different locations across the region (one forum in the Murraylands and one in the Riverland).

Schools are invited to send student representatives to the forums. Each school is encouraged to bring four students but this can be negotiated. Students will need to be accompanied by a teacher/SSO or parent at each YEL forum.

Schools are invited to attend forums with topics of interest to them.

There is no requirement to come to all forums, however students will receive most benefit from attending more than one throughout the year.

The YEL students will develop a connection to the natural environment and learn about conserving and caring for our local landscapes. They will grow as leaders with skills in public speaking, leadership, peer teaching and much more.

At the YEL forums, students will participate in hands-on activities and are invited to share their learning back at school which will see them earn rewards for their work.

This program has strong and direct curriculum links, these are not add-on projects! It is learning in authentic context.

Schools will also develop relationships with local partnership schools and outside agencies including Landcare groups.

Teachers involved with YEL forums will have access to resources, information and ideas on how to deliver lessons on the topic back at school.

To register for YEL or for more information, including details about how YEL students are working towards several achievement standards please contact Cindy Kakoschke; cindy.kakoschke@sa.gov.au

YEL students earn stickers based on how they share the activities, information and experiences back at school. Prizes will be on offer for 'super-sharers', those who have gone above and beyond to share what they have learnt.



River Murray Youth Council RMYC Program



The River Murray Youth Council (RMYC) is a fantastic opportunity for high school students (Year 8-12). Students who are interested in the environment come together to meet like-minded people, learn new skills and assist with projects aimed at conserving and caring for our local landscapes.

In 2021, students will be directly involved with real, hands-on projects throughout the year and have the opportunity to complete work experience tailored to their interests.

RMYC students may be eligible for SACE credits through the Self-directed Community Learning recognition process (students need to speak with their SACE coordinators for more information).

Riverland and Murraylands groups

In 2021, there will be both a Riverland and Murraylands RMYC group. These groups will come together regularly to share ideas and experiences through online meetings and in-person events where possible.

Both groups will have the opportunity to complete work experience throughout the year, tailored to their interests. Working with Landscape Board staff, Landcare groups and other partners will ensure the students are exposed to many different career ideas and opportunities.

RMYC students will also have the opportunity to work within their groups on local projects which they believe to be important to the region.

RMYC students will have the opportunity to be involved with planning and providing their ideas and feedback to the Landscape Board.

If you know a student who is interested in the local environment, or looking towards a career in environment, sustainable farming or conservation please encourage them to get involved.

Contact [Christina Liapis](mailto:christina.liapis@sa.gov.au) to request more information, flyers for your school or registration forms for interested students; christina.liapis@sa.gov.au



Professional development for teachers



The Education team aims to provide quality learning opportunities for teachers in the region. We believe as teachers it is just as important for you to learn, grow and take part in some fun hands-on activities that you can take back to school. 2021 will see professional development opportunities in line with the term themes.

Professional development (PD) sessions aim to provide:

- concise and current information on environmental or sustainability topics
- hands-on activities and take-home resources
- opportunities to relax and connect with nature and other teachers
- PD certificates for attendees
- examples of projects from schools in your local area, and much more.

In some cases it's possible for Education program staff to deliver PD sessions just for your staff (as part of a staff meeting or similar) if there is enough interest and depending on availability.

If you have ideas on what topics would be useful or guest speakers you would love to hear from please contact your local Education officer.



Education sessions and guest speakers



Throughout 2020, more than 930 students from 33 different schools across the Murraylands and Riverland region benefited from an education session delivered by or facilitated by our team. Sessions are delivered either in school or as part of an excursion, and will be on offer in line with the term theme or you can work with the team to find something that suits.

Education officers are able to visit the classroom or accompany classes on excursions to learn about local landscapes and environmental topics.

The Education team would love to add value to what you are already doing. It's important to plan ahead so please allow at least three-four weeks notice which will ensure the best chance of securing a session.

Some of the topics listed have loan kits and teacher resource packs that can be utilised in class by yourself.

Contact an Education officer to see how you can best work together this year.

Introduction to macroinvertebrates (waterbugs)

The waterbug models allow students to see the creatures up close and real samples can be provided if weather and conditions are suitable.

Frogs

A PowerPoint presentation highlighting the features and calls of local frog species.

Threatened species

A classroom (or outdoor) session and activity about local threatened animals and their habitats.

Water

How is water shared?
How much water do we use?
Activities exploring water use.

River Murray STEM activity:
Students learn about locks, weirs and wetlands and create their own using different materials.

Skulls and bones

A touchy-feely session where students can learn about different animal skulls and skeletons.

Fish

Utilising the fish kit to talk about local fish species, introduced species and habitats.

Scats and tracks

Learn the ancient skill of identifying local animals through their scats, tracks and other traces.

Other topics:

- plot to plate
- connecting with nature
- soils
- Environmental careers
- pest plants and animals
- fungi
- energy and biodiversity audits
- waste and recycling.



Precious plants for precious people



In 2020, more than 400 precious plants (silver daisy) were given as gifts across the region in an effort to educate about our threatened species and to coincide with Mother's Day. This program will be delivered in both the Riverland and Murraylands again this year.

Students will have the opportunity to take home a rare/precious plant to give to their precious person on Mother's Day.

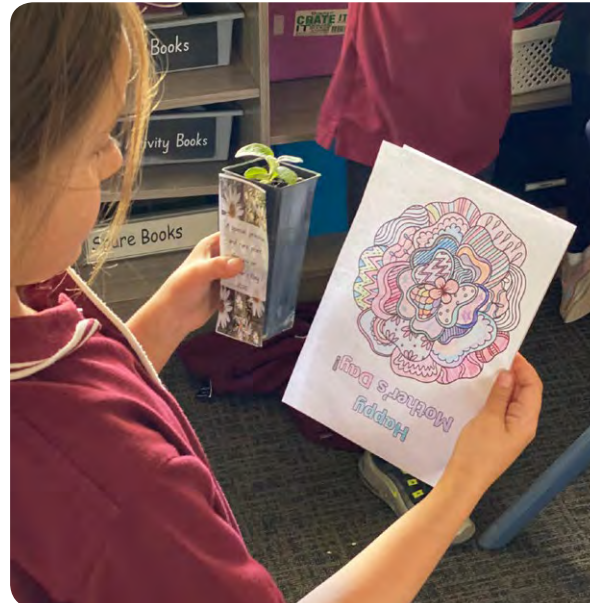
Participating schools will collect their precious plants from a local 'pick up' station and the materials taken back to school (or sent home) for students to prepare.

Materials will include instructions, files to print cards and wrapping paper, labels for the plants and access to the following videos:

Precious plants program click [here](#).

How to plant a precious plant seedling click [here](#).

A limited number of plants will be available in both the Murraylands and Riverland areas. More detail about how to register to secure plants for your class will be sent to all schools later in term one.



Additional support for your school



The Education team can also provide the following support/assistance to schools. Contact an Education officer for more information or to discuss your specific needs.

One-on-one support

- Assist with providing contacts and technical advice about local on-ground projects that schools/students can be involved with.
- Working with student environmental groups to facilitate youth voice or develop project ideas.
- Assist with information and ideas on how to connect students and staff with nature.
- Assist with information and tools to develop sustainable food gardens.
- Assist with information and tools to develop bush tucker gardens.

Work experience

- The Murraylands and Riverland Landscape Board provides work experience placements to students who are considering careers in the environmental sector or who are interested in learning about sustainable agriculture.

Careers

- Provide information on career paths and opportunities.
- Attend careers information sessions or expos.

Facilitate class field trips

- Assist teachers with identifying suitable locations for class field trips through provision of Local Places Guide.
- Provide information and initiate contact with environmental professionals who can assist with topic specific field trips.

On-ground projects

- Assist with providing contacts and technical advice about local on-ground projects that schools/students can be involved with.
- Assist with ideas and contacts for projects within school grounds.

Guest speakers

- Assist with identifying and contacting suitable guest speakers (for in-class or on-site presentations) on environmental topics (e.g. wetland monitoring/health, pest plant and animal control, sustainable farming).

Student representative council (SRC) and school environment groups

- Assist/provide support to SRC in developing environmental projects for the school.
- Assist/provide information on how to develop a school environment group and encourage youth voice and recognition.

Assistance to students with research projects

- Students can visit our website for ideas on environmental topics for SACE research projects:
<https://www.landscape.sa.gov.au/mr/home>
- For those who already have an approved topic and research questions please email these directly to:
MRenquiries@sa.gov.au

Resources to borrow

The Education team have resources and kits available for loan at no cost.

The kits are designed to be user-friendly and add value to learning within the classroom. You do not need to be an expert to use the kits or talk about what's in them.

Due to high demand, the kits are available for one week at a time and priority is given to schools within the Murraylands and Riverland region. If the kits are required for a longer period please discuss with an Education officer.

Kits are available for pick up from your local Landscape Board office unless otherwise arranged.

Threatened species kit

Designed to raise awareness of some of the local animals listed as threatened or endangered.

The life-like models can be displayed and handled by students which may be as close as they will ever get to these special creatures.

The fact sheets provide information about habitat, threats and what needs to be done to ensure species do not become extinct.



Macroinvertebrate kit

This kit is full of hand-made models for teachers and students to handle and study.

The kits contains over-sized waterbugs and information about some of their quirky or amazing features. Get up close with these creatures you may never imagine live in the waterways.

Kits also include identification charts and instructions on how to get your very own waterbug sample from a local waterway. Consider borrowing the Waterbug blitz kits as well with sampling and viewing equipment.



Waterbug blitz kits

Thinking of learning more about aquatic macroinvertebrates or undertaking a 'waterbug blitz'? This is the kit for you.

The kit contains everything to collect and view waterbug samples at a suitable location such as a shallow wetland with lots of good aquatic vegetation.

Macroinvertebrate samples can also be collected from a site then taken back to school for viewing and identification.



Resources to borrow

Skulls and bones

Did you ever see a wombat or a snapper skull? Get your students thinking about how we can identify what's been living in our environment by what's left behind. Is it native or a pest species? Is it a carnivore or a herbivore?

The skulls and bones kit contains more than 10 different skulls and bones for kids to get curious about. This kit works well when combined with a lesson on scats and tracks.

Please note this kit is stored in Berri so allow time for transport if needed.



Scats and tracks

This kit includes several different animal scats in jars, that students can try to identify.

A powerpoint presentation can be used to introduce your students to different animal tracks and what to look for.

It also includes animal track models that can be used to make tracks in sand.

This lesson and kit could compliment a visit to a national park or bush block to look for tracks and scats.



Life cycles

Perfect for early years but also great for any class investigating life cycles.

This kit contains real frog life cycle samples (set in resin), large magnet life cycles, colouring sheets, puppets and also sensory bottles and activities.

Set up a display area for your students to explore and learn about lots of different animal life cycles.

This kit would compliment a biological science unit.



AUSMAP Microplastics survey kits

Education staff are accredited in the delivery of microplastics surveys and also able to train students and teachers to complete surveys.

Borrow the kit to undertake your own microplastics survey at a local waterway.

Contact your Education officer to learn more about AUSMAP and the microplastics project or visit:

<https://www.ausmap.org/>



Resources to borrow

Bat monitoring kit

Get students involved with bat monitoring and see which of our native bats are living around the school.

The kit includes an echo meter and iPad to record and visually see bat calls. It also includes a "baton" which allows students to hear the calls as they happen (at night).

There's also a bat box template that can be used to build your own bat habitats.

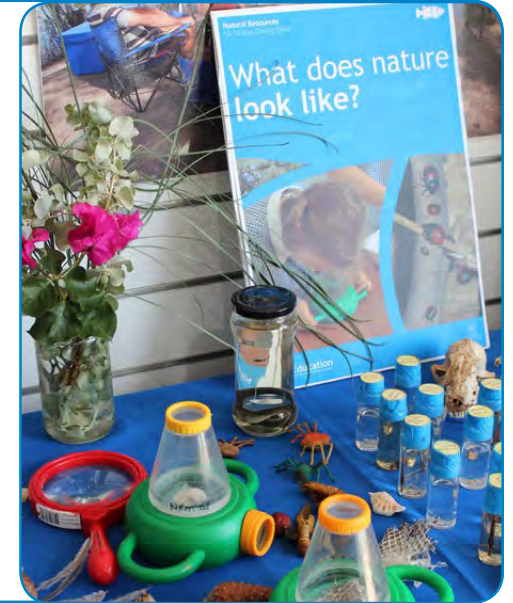


Five senses nature display

This collection of natural materials is perfect for environmental expos, libraries, school open days, or engaging younger students with nature.

The collection contains items to appeal to all the senses including animal skins and fur, pine cones, shells, native plants, soil, bird calls and animal noises, magnifying glass with light, macroinvertebrate samples and much more.

Kit includes set up instructions and examples so anyone can set this up for a sensational feast for the senses.



GPS units

This kit contains 10 Garmen eTrex10 GPS units.

These units are simple to use and suitable for geocaching or marking/locating sites. Excellent tools for collection of data and orienteering.



Home energy toolkit

If you have downloaded the energy auditing resources, this kit is the perfect addition to the school or class auditing unit.

The home energy toolkit contains items and information to help find out what is using energy and how to start saving. These kits can also be borrowed from local libraries.



Resources to borrow

Fish kit

This wonderful set of life-size and life-like fantastic fabric fish includes species such as Murray cod, golden perch, carp, silver perch, catfish and purple spotted gudgeon.

The fabric fish are perfect to hang in the classroom, or let the students handle and study if they are learning about the river or native animals.

The kit also includes fact sheets about native and introduced fish species along with lots of activity ideas.

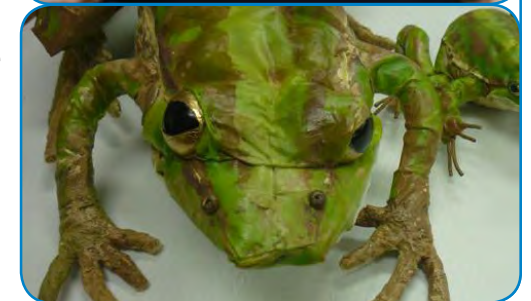


Frog kit

The frog kit includes oversized life-like local frog species which students can study and handle. It also includes a powerpoint presentation which can be used to educate students about frog species and their mating calls.

Frog themed activity ideas along with magnetic and 3D frog life cycle are also included to assist with learning about these amazing creatures.

Why not use this kit in conjunction with some frog monitoring using the FrogSpotter App.

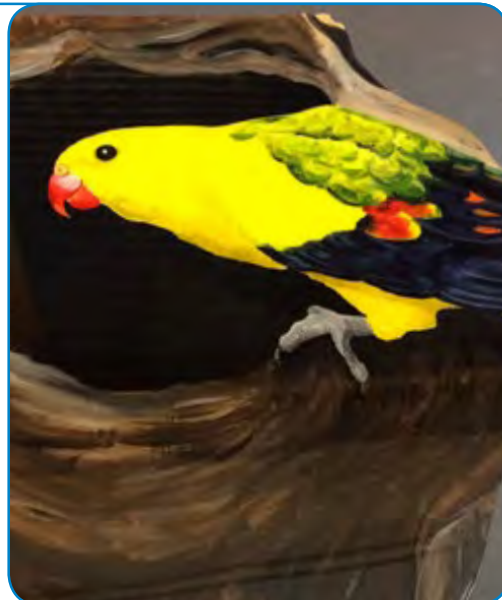


Bird kit *Upper Murray

This kit contains 10 hand painted native birds which can hang in the classroom. Included are superb fairy wren, pelican, caspian tern and regent parrot to name just a few.

The kit also contains local bird identification sheets. The kits are located in Berri so please allow time to receive them if you are outside the Riverland.

Team this kit up with the twitchers kit which has 10 pairs of binoculars and bird ID guides to get students started monitoring birds.



Twitchers kit for bird monitoring

This kit contains 10 pairs of binoculars, assorted local bird ID sheets and guide books along with simple bird monitoring sheets to start monitoring the birds in the school yard, local park, wetland or waterway.



Resources to borrow

Soil kit

The soil kit contains equipment, resources and ideas to assist in creating soil lessons and experiences for students including exploring the different soil layers using fabric.

Students can bring soil samples from home or collect from the school yard and carry out many different hands-on tests and experiments while learning about the importance of soil. Included are several CSIRO soil testing kits for simple soil analysis.



What grain/seed is that?

Exploring seeds, grains and food production is easy with this kit. It contains A3 laminated picture-posters featuring 11 different kinds of grains and seeds, what the crops look like and what they are made into.

The kit also contains samples of each kind of grain and seed to touch and feel!

Set the posters up in classrooms with seeds in the bags below for the students to explore and examine up close.



Nude food sample kit

This kit contains many great alternatives to plastic bags and wrap (snack boxes, sandwich wraps etc). Use the kit for teacher or parent workshops or to show students how to reduce packaging in their lunch.

Kit includes many resources and facts/figures about nude food and waste. Available for a week at a time.



Education program library

The team has a growing library of books and DVDs on a range of topics including:

- nature play
- food gardens
- arts and crafts
- water, waste, biodiversity, sustainability and weeds.

Ask your local Education officer for a copy of the list of books available.



Resources to borrow



River Murray Exhibition - the big fish

This enormous and hand-made piece of river education history is available to borrow for events and activities. The big fish is a fabric display 20-30 metres long and comes with a plethora of information relating to its intricate design.

From fish and animals to Indigenous life, history of paddle steamers and trade, irrigation, drought, weeds, farming and food the River Murray Exhibition can be used as a static display or a teaching resource.

In 2017, the big fish was on display as part of the Barmera Primary School's environment expo. Glossop High School students were each given a section of the display to talk about and shared their knowledge to teach younger children about the river.

The display is shown in these photos as set up on its original metal poles and frames but as it's a one-sided display it could easily be hung along one wall to save space.

Currently stored with the Education team in Berri please get in touch if you would like to borrow this resource. A trailer would be needed to collect the whole free standing display including poles and frames.





What's happening each term

See what the Education team have on offer in line with the term themes for 2021 and plan your involvement.

Term one 2021 Biodiversity



What is biodiversity? Get involved in term one and learn from experts about biodiversity and local projects in the region aimed at increasing biodiversity.

Week 1

Education program email will go out including information about themed resources, ideas for classroom activities, education sessions available throughout the term and registration details for our programs.

Week 4

Thursday 18 February - Teacher PD online (via Microsoft Teams) with Biodiversity guest speaker.
4:30 pm - 6:00 pm.

Week 5

Wednesday 24 February - Riverland RMYC info session. Details TBA.

Week 6

Wednesday 3 March - Murraylands RMYC info session. Details TBA.

Week 8

Wednesday 17 March - Riverland YEL Forum. Details TBA.

Wednesday 24 March - Murraylands YEL Forum. Details TBA.

Week 9

RMYC work experience opportunities in biodiversity theme. Details TBA.

Week 11

RMYC virtual joint meeting with biodiversity guest speaker.

Friday 9 & Saturday 10 April - Murraylands Education team staff and RMYC students at Karoonda Farm Fair.

Term one school holidays:

Wednesday 21 April - Murraylands RMYC project/activity day. Details TBA.

Thursday 22 April - Riverland RMYC project/activity day. Details TBA.



Term two 2021

Sustainable farming



What is sustainable farming? Get involved in term two and learn from experts about our diverse region and how farmers are working towards being more sustainable.

Week 1 (or end term one)

Education program email will go out including information about themed resources, ideas for classroom activities, education sessions available throughout the term and registration details for our programs.

Week 4

Wednesday 19 May - Riverland Teacher PD Session. Details TBA.

Thursday 20 May - Murraylands Teacher PD Session. Details TBA.

Week 7

Wednesday 9 June - Riverland YEL Forum. Details TBA.

Week 8

Wednesday 16 June - Murraylands YEL Forum. Details TBA.

Week 9

RMYC work experience opportunities in sustainable farming theme.

Week 10

RMYC virtual joint meeting with sustainable farming guest speaker.

Term two school holidays

Wednesday 14 July - Murraylands RMYC project/activity day. Details TBA.

Thursday 15 July - Riverland RMYC project/activity day. Details TBA.



Term three 2021

Pest plants and animals



How do we combat pest plant and animal species in our region?
Which species are posing the biggest problems? Learn from experts
and participate in hands-on projects.

Week 1 (or end term two)

Education program email will go out including information about themed resources, ideas for classroom activities, education sessions available throughout the term and registration details for our programs.

Week 4

Wednesday 11 August - Riverland Teacher PD Session. Details TBA.

Wednesday 18 August - Murraylands Teacher PD Session. Details TBA.

Week 7

Wednesday 1 September - Riverland YEL Forum. Details TBA.

Week 8

Wednesday 8 September - Murraylands YEL Forum. Details TBA.

RMYC work experience opportunities in pest plant and animal control.

Week 9

Friday 17 & Saturday 18 September - Riverland Education program staff and RMYC students at Riverland Field Days.

Week 10

RMYC virtual joint meeting with pest plant and animal guest speaker.

Term three school holidays

Wednesday 6 October - Murraylands RMYC project/activity day. Details TBA.

Thursday 7 October - Riverland RMYC project/activity day. Details TBA.



Term four 2021 Water



What is water efficiency and water literacy? How is water shared and managed in our rivers and wetlands? Learn from experts and take part in hands-on activities which will highlight how precious our water is.

Week 1 (or end term three)

Education program email will go out including information about themed resources, ideas for classroom activities, education sessions available throughout the term and registration details for our programs.

Week 3

Wednesday 27 October - Riverland Teacher PD Session. Details TBA.

Thursday 28 October - Murraylands Teacher PD Session. Details TBA.

Week 4

Wednesday 3 November - Riverland YEL Forum. Details TBA.

Week 5

Wednesday 10 November - Murraylands YEL Forum. Details TBA.

Week 7

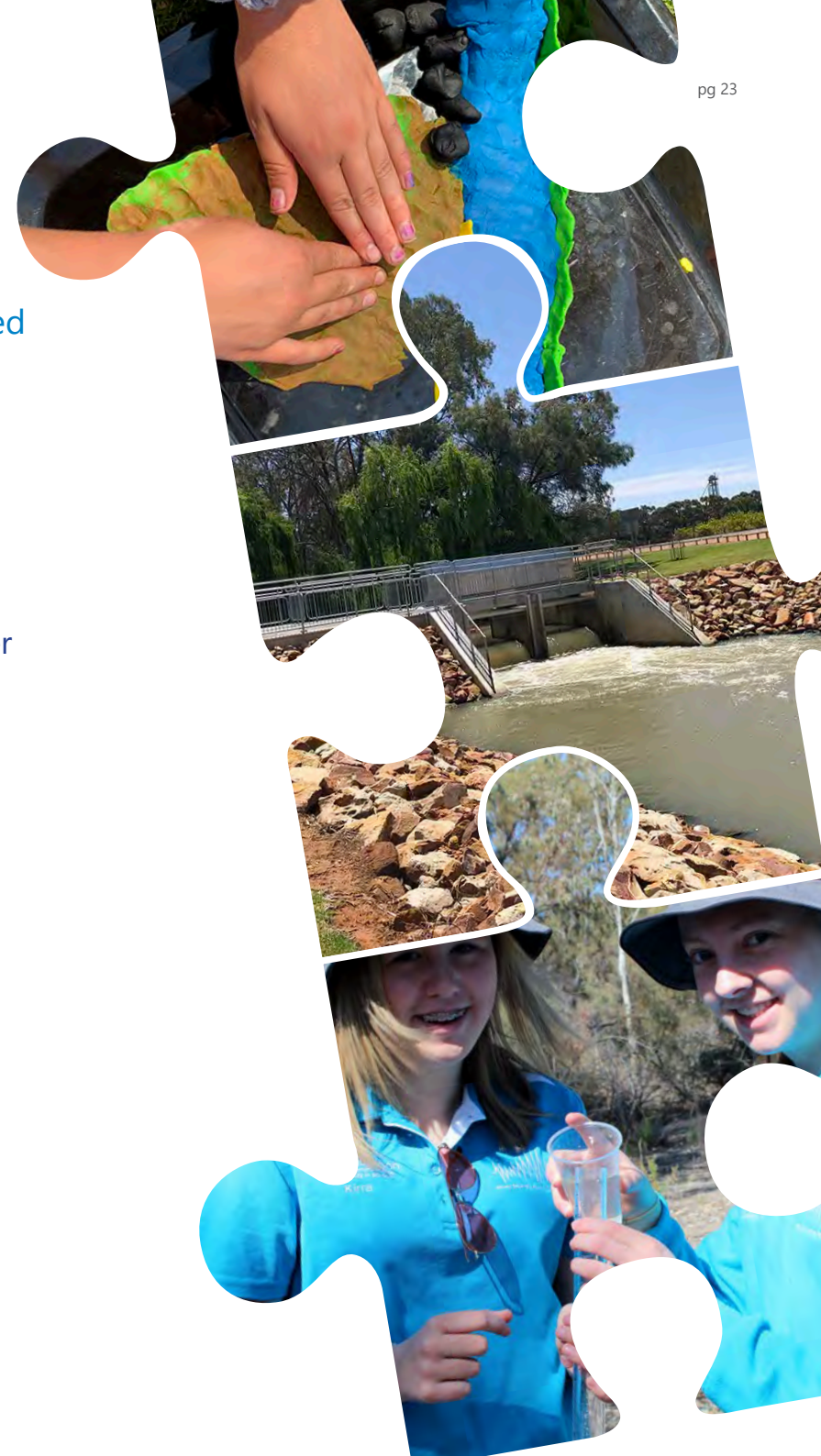
RMYC work experience opportunities in water theme.

Week 8

RMYC virtual joint meeting with guest speaker on water.

December school holidays

Wednesday 15 & Thursday 16 December
- RMYC joint activity/celebration.





What about other opportunities?

Learn about getting involved with citizen science projects and opportunities for cultural education sessions.

Other opportunities

Cultural sessions



Cultural education sessions at school or as part of excursions are invaluable. Education program staff are able to assist in facilitating cultural sessions and guest speakers on a range of topics including: traditional plant use, weaving, carving, tools and weapons, connecting to country (land and water) and the cultural significance of animals.

Sessions may be delivered by Murraylands and Riverland Landscape Board staff or members of local First Nations group(s).

In some cases where funding is not available there may be a cost involved.

Schools can also take part in a tour of Ngaut Ngaut Conservation Park near Nildottie. This culturally and historically significant conservation park is best accessed through a guided tour. The guided tours aim to promote cross-cultural understanding.

Contact your local Education officer to discuss options for your next Cultural education session or to learn more about a tour of Ngaut Ngaut.



Other opportunities Citizen Science



There are a number of citizen science events and activities that classes or schools can be involved with. While Education staff responsible for delivery of these programs, they will promote the opportunities and support student involvement where possible. Get your students actively involved with monitoring and recording what's going on at your site; it's a great way to participate in outdoor learning and connects with maths and literacy outcomes.

To find a citizen science activity or project near you, visit the Murraylands and Riverland Landscape Board website:

<https://www.landscape.sa.gov.au/mr/get-involved/citizen-science>

You can also visit the Australian Citizen Science website and use the project finder: www.citizenscience.org.au or check out the suggestions below:

AUSMAP Microplastic surveying:

www.ausmap.org

Bats:

<https://www.landscape.sa.gov.au/mr/get-involved/citizen-science/bat-monitoring>

Birds:

<https://birddata.birdlife.org.au/>
<https://aussiebirdcount.org.au/>
<https://fairywrenproject.org>

Echidnas:

<https://grutznerlab.weebly.com/echidna-csi.html>

Frogs:

frogwatchsa.com.au

Fungi:

<https://fungimap.org.au/>

Goannas:

<https://biocollect.ala.org.au/acsa/project/index/dc147397-82c0-4754-854f-8014b8d0d470>

Mosquitos:

<https://hehp.wordpress.com/category/mozzie-monitors/>

Water bugs

(macroinvertebrates):

<https://www.waterbugblitz.org.au/>

Trees:

Dead Tree Detective:

<https://biocollect.ala.org.au/acsa/project/index/77285a13-e231-49e8-b212-660c66c74bac>

Turtles:

<https://turtlesat.org.au/turtlesat/default.aspx>

Wildlife Spotter:

<https://volunteer.ala.org.au/wildlife-spotter>





How does it all link to **the curriculum?**

Learning about and participating in caring for and conserving our local landscapes fits easily in many areas of the curriculum. It's not 'extra' work.



Curriculum links

The Education program promotes the concept of Education for Sustainability (EFS). Education for Sustainability develops the knowledge, skills, values and world views necessary for people to act in ways that contribute to more sustainable patterns of living.

The Australian Curriculum identifies sustainability as a cross-curriculum priority, which means it is embedded in all learning areas.

Science, technology, engineering and maths (STEM) link well with the topic of sustainability. Environmental issues are often challenging, requiring complex solutions. STEM encourages the use of hands-on practical activities to help learners experiment, use new technologies, test ideas and make/create innovative solutions to real, complex problems.

Relationships with local industries and communities are also important to both teacher and student learning in both STEM and sustainability.

The Education team can suggest local real-world complex environmental problems for students to investigate using STEM.

The services and resources offered by the Education program enable teachers to address sustainability within their programs. All resources are linked to the Australian Curriculum. Opposite, and the on the next two pages are a few examples of links to some subject areas.

Geography

Students examine the effects of human activities on environments, including how human use of resources affects ecosystems. They consider challenges to sustainability, strategies to address these and how they vary from place to place.

Activities, programs and resources:

- Young Environmental Leaders Program and River Murray Youth Council
- Gutter Guardians
- excursions to local environmental sites
- calculating your carbon footprint
- cultural sessions.



Science

Students investigate the relationships between systems, how systems respond to change, and develop an appreciation for the interconnectedness of Earth's biosphere, geosphere, hydrosphere and atmosphere. They understand the importance of using science to predict possible effects of human and other activity and to develop management plans or alternative technologies that minimise these effects.

Activities, programs and resources:

- water quality monitoring
- Critters Galore/macrobenthos, A Frog's Life and Saline Solutions resources
- environmental auditing
- school food gardens.



Curriculum links

Maths

Maths provides opportunities for students to develop the proficiencies of problem solving and reasoning essential for the exploration of sustainability issues and their solutions. Mathematical understanding and skills are necessary to measure, monitor and quantify change in social, economic and ecological systems over time.

Activities, programs and resources:

- water quality monitoring
- environmental auditing
- citizen science activities
- Addressing Your Classroom's Carbon Footprint resource.

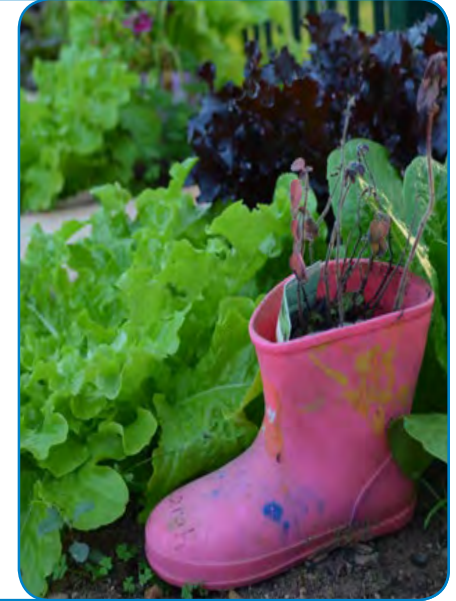


Design and technologies

Actively engages students in creating quality designed solutions for identified needs and opportunities across a range of technological contexts. Students consider the economic, environmental and social impacts of technological change and how the choice and use of technologies contributes to a sustainable future.

Activities, programs and resources:

- school food gardens
- insect hotels, bee hotels, lizard lounges, butterfly gardens
- soil kit.



Health and physical education

Students develop a deeper understanding of the relationship between the health and wellbeing of the individual and the environment. They develop this understanding through a range of activities including learning about the environment while experiencing the outdoors.

Activities, programs and resources:

- Young Environmental Leaders Program and River Murray Youth Council
- outdoor learning and excursions using the Local Places guide
- school food gardens
- geocaching.



History

History provides content that supports the development of students' world views, particularly in relation to judgments about past social and economic systems, and access to and use of the Earth's resources. It provides opportunities for students to develop an historical perspective on sustainability.

Activities, programs and resources:

- River Boy teacher resource pack
- Upstream book and teacher resource pack
- history of water use and irrigation
- Saline Solutions resource
- Aboriginal culture sessions.



Curriculum links

English

English assists students to develop the skills necessary to investigate, analyse and communicate ideas and information related to sustainability, and to advocate, generate and evaluate actions for sustainable futures.

Activities, programs and resources:

- youth voice opportunities through the Young Environmental Leaders (YEL) Program and River Murray Youth Council (RMYC)
- Hairy Nose Itchy Butt teacher resource pack
- River Boy teacher resource pack.



Civics and citizenship

Civics and Citizenship prepares students to be informed consumers, to act in enterprising and innovative ways and to perceive business opportunities in changing local, regional and global economic environments.

Activities, programs and resources:

- Addressing Your Classroom's Carbon Footprint resource.
- youth voice opportunities through the Young Environmental Leaders (YEL) Program and River Murray Youth Council (RMYC).



2021 Education program registration

Use this form to register for programs/receive more information. You will also be added to the Education program email list for regular updates.

Please scan and email to cindy.kakoschke@sa.gov.au or fax to 8582 4488.

School:.....

Teacher Name:.....

Ph:.....

Email address:.....

Please select the items/programs of interest and an Education officer will forward more information to you. **Please note you will also be added to the Education program email list to receive updates, information and resources throughout the year.**

Young Environmental Leaders (YEL) Program (for students in year 5-7)

Information about work experience opportunities for high school students

Information about the River Murray Youth Council (RMYC) Program (for students in year 8-12)

I would like to arrange an **education session** (classroom visit or excursion) with an Education officer;

My class will be working on (please specify unit of work or topic):.....

Preferred date(s) and time for class visit or excursion:.....

I would like to get involved with the..... Citizen Science project, please send me more information.

I would like to arrange a **cultural education** session for my students on including the following topic(s):.....

Preferred date(s)/time for cultural education session:.....

I would like more information about:.....

.....

For more information about the Education program or to talk to your local Education officer:

Riverland:

Cindy Kakoschke
Education officer
Murraylands and Riverland Landscape Board
Ph 08 8580 1800
Email cindy.kakoschke@sa.gov.au

Murraylands:

Christina Liapis
Education officer
Murraylands and Riverland Landscape Board
Ph 08 8532 9100
Email christina.liapis@sa.gov.au