



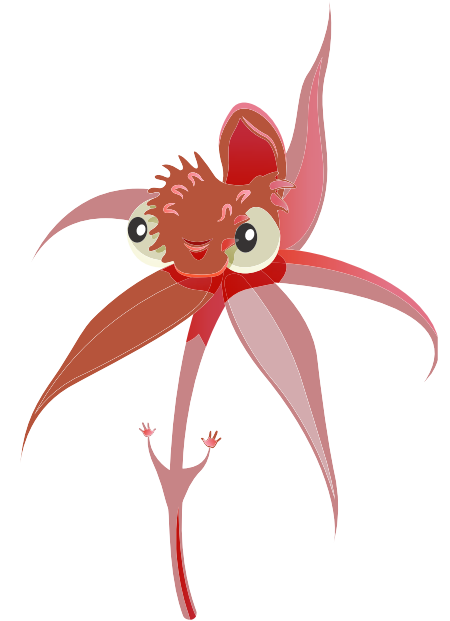
ADAPT Loddon Mallee
Climate Change
Activity Book
Lesson planner

The ADAPT Loddon Mallee Climate Change Activity Book follows the story of Griffin the Growling Grass Frog on his mission to discover why the Loddon Mallee Landscape is changing and why his wetland habitat is drying up. Through the friends he meets along the way, Griffin learns about Climate Change and finds out how we can ALL reduce our environmental footprint.


This bright, interactive activity book can be used to: launch inquiry topics, spark conversations, and introduce the concept of Climate Change to children of all ages. Whilst the fictional characters and the plight of Griffin the Growling Grass frog is a way to engage Junior and Middle Primary groups to the effects of climate change, the local stories and nonfiction content are fantastic reference materials for Middle and Upper Primary Students. The book can be used in its entirety with one grade, or key activities can be chosen to match the learning outcomes of your topic, and can be tailored to your curriculum outcomes.

Below is a list of practical ideas, 'spin off' lessons and extension activities that allows the publication to be used across many age groups and learning areas. When planning your topic of inquiry, begin by reading the associated pages in the text and then highlight the activities that suit the level of your students, and choose the lessons that allow the concepts to be brought to life in a simple and meaningful way.


To access the hyperlinks provided please find the online document at - adaptloddonmallee.com.au/forkids/



Junior primary lesson ideas

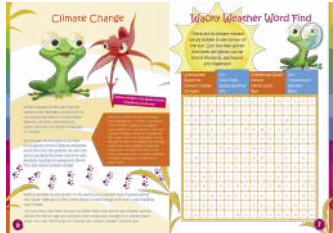
Page reference	Activity
Pp 2-3 The Loddon Mallee map 	<ol style="list-style-type: none">1. Pin the tail on the town Use Google maps to look at a map of Australia. Students point to where they think they live.2. Where is Victoria? Using a map of Australia, Identify the state of Victoria, and mark in the borders.3. Where is the Loddon Mallee Region? Highlight the area of the Loddon Mallee Region (as seen in the Climate Change Activity Book).4. Where have you been? Students take home a map of the Loddon Mallee area and find out where they have been on holidays and where their friends and family live. Mark places on the map.5. Bring in your photos Students bring in photos of their time in nature, in areas around the Loddon Mallee (picnics, camping trips, fishing trips). These photos can be placed on a large map in the classroom.
Extension	<ol style="list-style-type: none">1. Invite a local representative From Coliban water, North Central or Mallee Catchment Authority, Landcare (local rep), DELWP etc., to talk to the students about the Loddon Mallee area and what makes this region so special.2. Invite various staff members from around the school (don't forget to include canteen managers, librarians, reception staff, maintenance staff) to Talk about the different towns they have visited and recall their most memorable natural environment in the Loddon Mallee area. Students interview teachers about the activities they used to do there, and their thoughts on whether they think it has changed over the years (if so, how?)

Junior primary lesson ideas


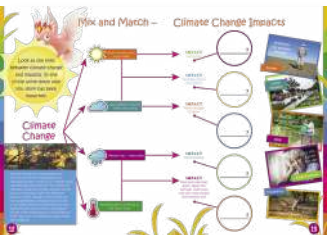
Page reference	Activity
Pg 4-5 What is great about our region? 	<ol style="list-style-type: none">1. Write a poem<ul style="list-style-type: none">• Watch the video Ode to the Mildura region.• Students write a poem about their experiences on the Murray - fishing, camping, water skiing, picnics etc2. Symbols for our Acknowledgement of Country<ul style="list-style-type: none">• Take a walk around your school, or local area and find examples of flora and fauna that could be used as symbols for an Acknowledgement of Country.• Students can take photos or sketch symbols and create a focal point for a whole school event.
Extension	<ol style="list-style-type: none">1. Students create a tourism advertisement for the town they are researching and present to the class.<p>Highlight the 'selling points' and encourage people to come and visit. Send it to a local school or community group in the area.</p>2. Invite an Aboriginal Elder to conduct a Welcome to Country and to talk to the children about the significance of the local waterways to the Aboriginal culture and their stories.3. Students interview teachers, parents and neighbours<p>'What is Important to you in our region?' Answers can be collated into a book or data can be represented in graphs and presented to a local member of parliament or local Landcare (Friends of...) group.</p>

Junior primary lesson ideas

Page reference	Activity
Pg 6-8 Climate change	Climate Change video Learning about climate change - Save the Children Australia 1. Teaote and the Wall Read the Book 'Teaote and the Wall' to explain the effects of Climate Change Teaote and the Wall — Marita Davies 2. Growling Grass Frogs Research information about Growling Grass Frogs . <ul style="list-style-type: none">• Where do they live?• What do they eat?• How are the frogs losing their homes?• How can we help the Growling Grass Frogs? 2. Red Cross Spider Orchid Research information about the Red Cross Spider Orchid <ul style="list-style-type: none">• Where does it grow?• What does it look like?• Why are the numbers of orchids reducing?• How can we help?
Extension	1. Create a quiz for parents to provide information and dispel myths about climate change 2. Class debate - 'Humans are causing climate change'




Junior primary lesson ideas

Page reference	Activity
Pg 10 How climate change impacts us 	<ol style="list-style-type: none"> 1. Major Mitchell Cockatoo As a class take notes while watching the video Major Mitchell Cockatoo <ul style="list-style-type: none"> • Where does it live? • What does it look like? • Why are the numbers of cockatoos reducing? • How can we help? 2. Create a tree hollow Collect bark that has fallen to the ground and encourage students to collage a nesting hollow for the Major Mitchell Cockatoo.
Extension	<ol style="list-style-type: none"> 1. Take part in the Aussie Backyard Bird Count Aussie Backyard Bird Count BirdLife and see if you have any Major Mitchell Cockatoos in your area. 2. Ask children to visit a local park/nature reserve with a parent and take photos of the various birds found in their local area. Investigate elements that attract wildlife and changes in the local area that could cause the numbers to decrease/increase.
Pg 12-13 Mix and match climate change impacts 	<ol style="list-style-type: none"> 1. Preparing for a heatwave Watch the weather report and discuss how to prepare for a heatwave and how to prepare for a fire. Australia's heatwave registers new hottest day on record, BOM says 2. Helpers in our community Research the role of a Firefighter. Fact Sheets 3. How to prepare for a flood Be Flood Ready 4. The effects of drought Use the images to explain the effects of drought to local communities the big dry

Junior primary lesson ideas

Page reference	Activity
Extension	<p>Children choose a Climate Change Impact and research:</p> <ol style="list-style-type: none">Heatwaves<ul style="list-style-type: none">Read about the recent heatwaves in VIC. BOM warns a heatwave is on the way in lead-up to summerWhat causes heatwaves?How can we look after ourselves in a heatwave?Bushfires<ul style="list-style-type: none">How rainfall effects the upcoming bushfire season Winter, spring rains drive increased grassfire potential in Australia's eastern statesHow does the rainfall increase or decrease the likelihood of a bushfire season?How can we (farmers, producers, residents) prepare?Floods<ul style="list-style-type: none">What is a flood Flood informationHow to prepare for a flood Be Flood ReadyDifferent types of flooding Types of FloodBlue-green algae<ul style="list-style-type: none">What is it What are blue-green algae?Articles of blue-green algae in Mildura Algae alert! And Lake Bolac Blue-green algae warning for Lake BolacThe effects of blue-green algae on fish and local wildlife Blue-green algae in the Murray-Darling BasinDrought<ul style="list-style-type: none">Drought explained – Impact on farms Drought Explained – Classroom – BTNDrought affected communities Drought-affected Communities – Classroom – BTNUse the images as a stimulus for discussions about drought The big dry

Junior primary lesson ideas

Page reference	Activity
Pg 14-15 What can we do and positive choices 	<ol style="list-style-type: none"> Using an image of a solar panel, tap into students prior knowledge <ul style="list-style-type: none"> What is it? What is it used for? Where have you seen them? What are they made from? Who has them? As a class, go for a walk around surrounding streets Or ask students to walk along their own street and count how many houses have solar panels.
Extension Positive choices action	<p>The Five R's (refuse, reduce, re-use, repair and recycle)</p> <ol style="list-style-type: none"> Collect old t-shirts to make shopping bags for the local supermarket. Run a Nude Food Campaign in the school – no wrappers in lunchboxes every Monday. Organise a book swap in the school at the end of each term (new books to read for the holidays.) Set up a recycling point for the school – liaise with businesses (Officeworks, Telstra, Woolworths, Coles) that already have recycling points in their premises <p>Transport</p> <ol style="list-style-type: none"> Students organise a ride to school day each term. Use the Public Transport Victoria app to plan a route to school or a popular venue. Organise a 'walking bus' route. Discuss the option of carpooling with other families in their street. <p>Food</p> <ol style="list-style-type: none"> Bring in items that are grown locally and examples of food sourced and grown overseas and discuss food miles. Photos can be taken of fruit and vegetable labels in grocery stores to ascertain where food originated from. Start a vegetable/herb patch. Produce can be sent home, or students could organise a 'Vege Swap' once a week inviting other community members to bring in excess produce to reduce wastage and build a sense of community. Analyse lunchboxes – where has the food 'come from?'

Junior primary lesson ideas

Page reference	Activity
Extension Positive choices action	<p>Plant native vegetation</p> <ol style="list-style-type: none"> 1. Speak to the local council/local nursery/Landcare representative about supplying seedlings for a tree planting day 2. Look at areas around the school that could be 'Cooled down with Greenery' <p>Minimise energy use</p> <ol style="list-style-type: none"> 1. Energy detectives walk around the school at recess and lunch turning off lights, air conditioners and computers. 2. Create 'Switch off' reminders around light switches. 3. Create optimum temperature signs around air-conditioned remotes to reduce energy usage. 4. Launch a 'Dress for the Weather' campaign when the weather starts cooling down. 5. Invite a solar panel installation company to talk to the students about solar panels and how much energy they could save. Students do a write up in the newsletter offering the company discount for school families that install solar panels. <p>Water</p> <ol style="list-style-type: none"> 1. Check the taps in the school have aerators/timers to reduce the water wastage. Check staff room, toilets and irrigation. 2. Place posters in the toilets about using the half flush when possible. 3. Place ice cream buckets under water fountains and any dripping taps. Use the water-to-water plants around the school 4. Write to the maintenance team asking for the need for irrigation to be monitored when it rains. Students install rain gauges and report back to the maintenance team. <p>Composting and Worm Farms</p> <ol style="list-style-type: none"> 1. Bendigo Organics Program Hints for your organic waste Compost Revolution 2. Discuss reducing food waste Reduce Food Waste 3. Build a worm farm for your class 4. Discuss innovative ways to use your food waste products – corn cobs for chickens, eggshells for the garden, coffee grounds for roses, banana peels for plants.

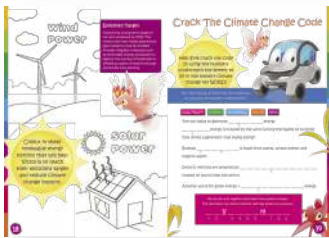
Junior primary lesson ideas

Page reference

Activity

Pg 16-19

Renewable energy



1. Prior knowledge about the sun

Complete the sentence 'The sun helps...'

(eg plants grow, to ripen fruit, to dry washing, to cause evaporation etc)

2. Students find practical ways to harness the energy from the sun.


Video - [The power of sunlight](#)

- Build a solar tower
- Build a solar oven (Make potpourri or dried fruit)
- Build a mini greenhouse and watch the seeds sprout.
Compare growing rates with seeds planted outside.


Junior primary lesson ideas

Page reference	Activity
Extension	<ol style="list-style-type: none">1. Invite a guest speaker From one of the Loddon Mallee renewable energy projects.2. Visit a local wind farm in the Loddon Mallee region.<ul style="list-style-type: none">• murrawarrawindfarm.com/• jungrenewableenergyfacility.com.au/• epicenergy.com.au/yawong-wind-farm/3. Build a model of a Sustainable House incorporating elements that keep the house cool in summer and warm in winter. Consider:<ul style="list-style-type: none">• Insulation• Energy sources• House orientation• Roofing• Doors and windows• Soft furnishing• Recycling/repurposing materials• Rainwater tanks• Waterwise plant selection• Chickens• Vegetable gardenskidcyber.com.au/sustainable-living4. Take part in Bendigo Sustainable House Day – October bsg.org.au/event/bendigo-sustainability-house-day/


Junior primary lesson ideas

Page reference	Activity
Pg 20 Wetland wandering 	<ol style="list-style-type: none">1. Write a letter to Griffin talking about all the things you have learnt along the way. Make a promise to look after his wetland through everyday choices and changes in behaviour.
Extension	<ol style="list-style-type: none">1. Use the letter/pledge as a springboard for ideas of student led actions that can be implemented in and around the school. Involve local sporting groups, independent supermarkets and local businesses to spread the word, and imbed their learning in practical solutions.

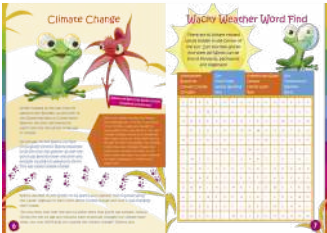


Middle primary lesson ideas

Page reference	Activity
<p>Pp 2-3 The Loddon Mallee map</p> 	<ol style="list-style-type: none"> 1. Research a town in the Loddon Mallee region Choose a town in the Loddon Mallee region and record the <ul style="list-style-type: none"> • Population • Local industry • What it is renowned for 2. Compare findings with other groups <ul style="list-style-type: none"> • What elements are the same across the three towns? • What elements are different across the three towns? 3. Research a natural environment in the Loddon Mallee region Research a natural environment (eg Kerang Ramsar Wetlands, Lake Buloke, Campaspe River) <ul style="list-style-type: none"> • What is the terrain like? • Name the types of flora and fauna that can be found there. • What activities can you do there? • What is this place renowned for?
<p>Extension</p>	<ol style="list-style-type: none"> 1. Invite a local representative From Coliban water, North Central or Mallee Catchment Authority, Landcare (local rep), DELWP etc., to talk to the students about the Loddon Mallee area and what makes this region so special. 2. Invite various staff members from around the school (don't forget to include canteen managers, librarians, reception staff, maintenance staff) to Talk about the different towns they have visited and recall their most memorable natural environment in the Loddon Mallee area. Students interview teachers about the activities they used to do there, and their thoughts on whether they think it has changed over the years (if so, how?)

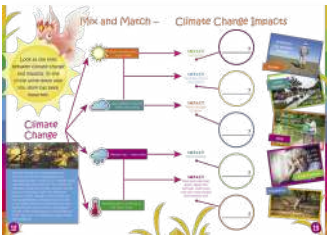
Middle primary lesson ideas

Page reference	Activity
<p>Pg 4-5 What is great about our region?</p> 	<ol style="list-style-type: none"> Find the river towns Look at the location of the Murray River and as a class identify the river towns that are near this amazing waterway. Tourism advertisements Watch tourism advertisements for the towns that back onto the Murray River. My Hometown Campaign – Swan Hill Incorporated The Road Back Home – Jane Edmanson: Mildura, VIC Overview of the Mildura region, Victoria, Australia (English version) <ul style="list-style-type: none"> What do they have in common? What products/services have come about because of the Murray River? Traditional names Students research the traditional names of the towns in the Loddon Mallee region eg Dirrawarra (Wangaratta), Wodonga and Gadhaba (Mansfield). Create a map with the traditional names.
Extension	<ol style="list-style-type: none"> Students create a tourism advertisement for the town they are researching and present to the class. Highlight the 'selling points' and encourage people to come and visit. Send it to a local school or community group in the area. Invite an Aboriginal Elder to conduct a Welcome to Country and to talk to the children about the significance of the local waterways to the Aboriginal culture and their stories. Students interview teachers, parents and neighbours 'What is Important to you in our region?' Answers can be collated into a book or data can be represented in graphs and presented to a local member of parliament or local Landcare (Friends of...) group.

Middle primary lesson ideas

Page reference	Activity
Pg 6-8 Climate change  	Climate Change Video Climate Change for Kids Animation <ol style="list-style-type: none"> Students research definitions for the Climate Change words on page 7. Use their understanding of the words to create clues for the word find. Research facts about climate change and create a presentation for assembly... Let's spread the word! Find an innovative way to present your material – Scratch programs, I-movie, Book Creator, Canva etc
Extension	<ol style="list-style-type: none"> Create a quiz for parents to provide information and dispel myths about climate change. Class Debate - 'Humans are causing climate change'
Pg 10 How climate change impacts us 	<ol style="list-style-type: none"> Major Mitchell Cockatoo Read the article Major Mitchell's Cockatoo BIRDS in BACKYARDS Major Mitchell Cockatoo Campaign Create an awareness campaign to 'Save the Major Mitchell Cockatoo' <ul style="list-style-type: none"> • Posters • Presentation at assembly


Middle primary lesson ideas

Page reference	Activity
Extension	<ol style="list-style-type: none"> Take part in the Aussie Backyard Bird Count Aussie Backyard Bird Count BirdLife and see if you have any Major Mitchell Cockatoos in your area. Ask children to visit a local park/nature reserve with a parent and take photos of the various birds found in their local area. Investigate elements that attract wildlife and changes in the local area that could cause the numbers to decrease/increase.
Pg 12-13 Mix and match climate change impacts 	<ol style="list-style-type: none"> Effects of Climate Change Climate change is wreaking havoc on Australians' health. What's our plan to fix things? How can we prepare for an emergency? ABC Emergency Children create posters to display at libraries, local shopping centres and cafes to raise awareness before Summer. Personal stories from bushfire survivors <ul style="list-style-type: none"> Listen to a personal story of the recent fires Bushfire Heroes - Classroom - BTN Write letters of thanks to your local CFA

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Middle primary lesson ideas

Page reference	Activity
Pg 14-15 What can we do and positive choices 	<ol style="list-style-type: none">1. Gather solar powered objects Calculators, solar powered, remote-control cars, outdoor garden lights etc and ask students what they have in common. List other places they have seen solar panels in use.2. Does your school have solar panels? Or does a surrounding business have solar panels that your students could visit? Ask the principal/business manager to show the students the inverter, and the data collected on the live app. Use the data to:<ul style="list-style-type: none">• Investigate power usage• Discuss possible ways they reduce power• Discuss how they optimise the solar power• Look at the amount of power they are generating and how much this converts to in price offset.• Are their using the solar power effectively?• Could timers be used to run appliances during the day and shut off at night?3. Look at the electricity bills of the school and teach students how to understand the data on each bill. Use Understand your bill for background information.

Middle primary lesson ideas

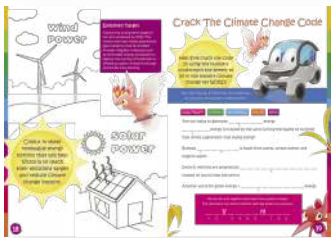
Page reference	Activity
Extension Positive choices action	The Five R's (refuse, reduce, re-use, repair and recycle) <ol style="list-style-type: none">1. Collect old t-shirts to make shopping bags for the local supermarket.2. Run a Nude Food Campaign in the school – no wrappers in lunchboxes every Monday.3. Organise a book swap in the school at the end of each term (new books to read for the holidays.)4. Set up a recycling point for the school – liaise with businesses (Officeworks, Telstra, Woolworths, Coles) that already have recycling points in their premises Transport <ol style="list-style-type: none">1. Students organise a ride to school day each term.2. Use the Public Transport Victoria app to plan a route to school or a popular venue.3. Organise a 'walking bus' route.4. Discuss the option of carpooling with other families in their street. Food <ol style="list-style-type: none">1. Bring in items that are grown locally and examples of food sourced and grown overseas and discuss food miles. Photos can be taken of fruit and vegetable labels in grocery stores to ascertain where food originated from.2. Start a vegetable/herb patch. Produce can be sent home, or students could organise a 'Vege Swap' once a week inviting other community members to bring in excess produce to reduce wastage and build a sense of community.3. Analyse lunchboxes – where has the food 'come from?'

Middle primary lesson ideas

Page reference	Activity
Extension Positive choices action	<p>Plant native vegetation</p> <ol style="list-style-type: none"> 1. Speak to the local council/local nursery/Landcare representative about supplying seedlings for a tree planting day 2. Look at areas around the school that could be 'Cooled down with Greenery' <p>Minimise energy use</p> <ol style="list-style-type: none"> 1. Energy detectives walk around the school at recess and lunch turning off lights, air conditioners and computers. 2. Create 'Switch off' reminders around light switches. 3. Create optimum temperature signs around air-conditioned remotes to reduce energy usage. 4. Launch a 'Dress for the Weather' campaign when the weather starts cooling down. 5. Invite a solar panel installation company to talk to the students about solar panels and how much energy they could save. Students do a write up in the newsletter offering the company discount for school families that install solar panels. <p>Water</p> <ol style="list-style-type: none"> 1. Check the taps in the school have aerators/timers to reduce the water wastage. Check staff room, toilets and irrigation. 2. Place posters in the toilets about using the half flush when possible. 3. Place ice cream buckets under water fountains and any dripping taps. Use the water-to-water plants around the school 4. Write to the maintenance team asking for the need for irrigation to be monitored when it rains. Students install rain gauges and report back to the maintenance team. <p>Composting and Worm Farms</p> <ol style="list-style-type: none"> 1. Bendigo Organics Program Hints for your organic waste Compost Revolution 2. Discuss reducing food waste Reduce Food Waste 3. Build a worm farm for your class 4. Discuss innovative ways to use your food waste products – corn cobs for chickens, eggshells for the garden, coffee grounds for roses, banana peels for plants.

Middle primary lesson ideas


Page reference	Activity
Pg 16-19 Renewable energy	<p>1. Students watch the current Renewable Energy projects in the Loddon Mallee region</p> <p>Loddon Mallee renewable energy</p> <p>Find out more information on:</p> <ul style="list-style-type: none">• Gannawarra Solar Farm and Storage System• Coonooer Bridge Wind Farm• Cohuna Solar Farm• Carwarp Solar Farm• Bannerton Solar Park and Solar Trams Initiative• Australian Tartaric Products Biomass Boiler




Middle primary lesson ideas

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Extension	<ol style="list-style-type: none">1. Invite a guest speaker From one of the Loddon Mallee renewable energy projects.2. Visit a local wind farm in the Loddon Mallee region.<ul style="list-style-type: none">• murrawarrawindfarm.com/• jungrenewableenergyfacility.com.au/• epicenergy.com.au/yawong-wind-farm/3. Build a model of a Sustainable House incorporating elements that keep the house cool in summer and warm in winter. Consider:<ul style="list-style-type: none">• Insulation• Energy sources• House orientation• Roofing• Doors and windows• Soft furnishing• Recycling/repurposing materials• Rainwater tanks• Waterwise plant selection• Chickens• Vegetable gardenskidcyber.com.au/sustainable-living4. Take part in Bendigo Sustainable House Day – October bsg.org.au/event/bendigo-sustainability-house-day/

Middle primary lesson ideas

Page reference	Activity
Pg 20 Wetland wandering	1. Write a pledge to Griffin about changes that can be made around the school and in and around the home. Collect signatures from classmates and family members.
	
Extension	1. Use the letter/pledge as a springboard for ideas of student led actions that can be implemented in and around the school. Involve local sporting groups, independent supermarkets and local businesses to spread the word, and imbed their learning in practical solutions.

Upper primary lesson ideas

Page reference	Activity
<p>Pp 2-3 The Loddon Mallee map</p> 	<ol style="list-style-type: none"> 1. Discover the Loddon Mallee region Students look closer at the Loddon Mallee Area Victoria's Loddon Mallee Region 2. Rainfall and temperatures across the Loddon Mallee region Divide the Loddon Mallee region into three sections and research <ul style="list-style-type: none"> Which town had the highest average temperature? Which town had the lowest average temperature? Which town had the highest rainfall? Which town had the lowest rainfall? Why? What effect does this have on the population, industry, types of agriculture, weekend activities etc 3. Write to a local Students write to a 'local' - e.g. Member of Parliament, local council, newspaper editor, school, weather station, maybe even a local farmer, to discuss the recent weather patterns. Compare the differences in temperature and rainfall amongst the different towns.
Extension	<ol style="list-style-type: none"> 1. Invite a local representative From Coliban water, North Central or Mallee Catchment Authority, Landcare (local rep), DELWP etc., to talk to the students about the Loddon Mallee area and what makes this region so special. 2. Invite various staff members from around the school (don't forget to include canteen managers, librarians, reception staff, maintenance staff) to Talk about the different towns they have visited and recall their most memorable natural environment in the Loddon Mallee area. Students interview teachers about the activities they used to do there, and their thoughts on whether they think it has changed over the years (if so, how?)


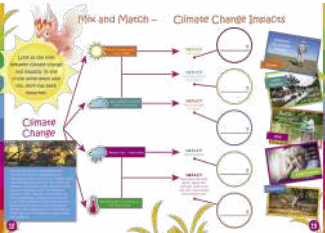
Upper primary lesson ideas

Page reference	Activity
Pg 4-5 What is great about our region? 	<ol style="list-style-type: none"> 1. Traditional Owners of the land Study the map of Victoria looking at the traditional owners of the land. Identify the different tribes in the Loddon Mallee region VicHealth Innovate Reconciliation Action Plan 2. Cultural significance of the local waterways Which rivers, lakes and other bodies of water are of cultural significance to the Aboriginal people? What are the stories that accompany these waterways? 3. Story of the Dja Dja Warrung people Students research the story, traditions and history of the different tribes for the area being researched. The story of the Dja Dja Warrung people - Djaara (Dja Dja Wurrung Clans Aboriginal Corporation) 3. What is an Acknowledgement of Country? Students research <ul style="list-style-type: none"> • Why and when is it used? • What is the difference between an Acknowledgement of Country and a Welcome to Country? 4. Acknowledgement of Country Students plan and lead an Acknowledgement of Country for a school or local event (following the local guidelines.)
Extension	<ol style="list-style-type: none"> 1. Students create a tourism advertisement for the town they are researching and present to the class. Highlight the 'selling points' and encourage people to come and visit. Send it to a local school or community group in the area. 2. Invite an Aboriginal Elder to conduct a Welcome to Country and to talk to the children about the significance of the local waterways to the Aboriginal culture and their stories. 3. Students interview teachers, parents and neighbours 'What is Important to you in our region?' Answers can be collated into a book or data can be represented in graphs and presented to a local member of parliament or local Landcare (Friends of...) group.

Upper primary lesson ideas

Page reference	Activity
Pg 6-8 Climate change	1. KWHL Climate Change Complete a KWHL chart on Climate Change <ul style="list-style-type: none">• What do you know about climate change?• What do you want to know about climate change?• How can you find out about what you want to know?• What did you learn about climate change? 2. Research Students research information about Climate Change Climate change questions and answers 3. Text innovation Using the text on pages 8 and 9 in the ADAPT Loddon Mallee Climate Change Activity Book - Remove the headings and ask students to read the text boxes and match the headings with the text. 4. Book Creator Children copy/cut out the texboxes on page 8 and 9 and create their own book by adding illustrations to match and add meaning to the text.
Extension	1. Create a quiz for parents to provide information and dispel myths about climate change. 2. Class Debate - 'Humans are causing climate change'


Upper primary lesson ideas

Page reference	Activity
Pg 10 How climate change impacts us 	<ol style="list-style-type: none"> Major Mitchell Cockatoo Read the article Protecting the Mallee's important Major Mitchell's Cockatoos Write a letter to help the Major Mitchell Cockatoos Write to the local Landcare group or 'Friends of... group' about the plight of the Major Mitchell Cockatoo. How can we help? Nesting boxes Build nesting boxes for local endangered birdlife. Increasing biodiversity around the home and school What plants can be introduced into school or your home to encourage birdlife into the area?
Extension	<ol style="list-style-type: none"> Take part in the Aussie Backyard Bird Count Aussie Backyard Bird Count BirdLife and see if you have any Major Mitchell Cockatoos in your area. Ask children to visit a local park/nature reserve with a parent and take photos of the various birds found in their local area. Investigate elements that attract wildlife and changes in the local area that could cause the numbers to decrease/increase.
Pg 12-13 Mix and match climate change impacts 	<ol style="list-style-type: none"> Rainfall and temperature trends Look at data of recent rainfall and temperatures... What does this mean? The data is in and Australia just had its hottest November on record Bushfire season Discuss the effects of Climate Change on our Bushfire Season High-risk bushfire days in Victoria could triple by end of the century, CFA finds Kangaroo Island bushfires Look at footage of the recent fires in Kangaroo Island Bushfire Special - Behind the News (Recent stories from children's point of view)

Upper primary lesson ideas

Page reference	Activity
Extension	<p>Children choose a Climate Change Impact and research:</p> <ol style="list-style-type: none">Heatwaves<ul style="list-style-type: none">Read about the recent heatwaves in VIC. BOM warns a heatwave is on the way in lead-up to summerWhat causes heatwaves?How can we look after ourselves in a heatwave?Bushfires<ul style="list-style-type: none">How rainfall effects the upcoming bushfire season Winter, spring rains drive increased grassfire potential in Australia's eastern statesHow does the rainfall increase or decrease the likelihood of a bushfire season?How can we (farmers, producers, residents) prepare?Floods<ul style="list-style-type: none">What is a flood Flood informationHow to prepare for a flood Be Flood ReadyDifferent types of flooding Types of FloodBlue-green algae<ul style="list-style-type: none">What is it What are blue-green algae?Articles of blue-green algae in Mildura Algae alert! And Lake Bolac Blue-green algae warning for Lake BolacThe effects of blue-green algae on fish and local wildlife Blue-green algae in the Murray-Darling BasinDrought<ul style="list-style-type: none">Drought explained – Impact on farms Drought Explained – Classroom – BTNDrought affected communities Drought-affected Communities – Classroom – BTNUse the images as a stimulus for discussions about drought The big dry


Upper primary lesson ideas

Page reference	Activity
Pg 14-15 What can we do and positive choices 	<ol style="list-style-type: none"> Analyse the electricity bills throughout the year Use Understand your bill for background information and ask students to speak to students at assembly about how much electricity the school is using and ways to reduce our electricity usage around the school (and home.) Students walk around the school taking note of different appliances in each area, their usage and their energy ratings. Present their findings to the Principal or business manager, suggesting ways to reduce their power usage. Energy Rating Labels Reducing Cooling Costs Reduce Computer Running Costs Create an ad campaign informing parents and the wider community on ways to mitigate climate change, and ways to adapt to climate change Fight Climate Change
Extension Positive choices action	<p>The Five R's (refuse, reduce, re-use, repair and recycle)</p> <ol style="list-style-type: none"> Collect old t-shirts to make shopping bags for the local supermarket. Run a Nude Food Campaign in the school – no wrappers in lunchboxes every Monday. Organise a book swap in the school at the end of each term (new books to read for the holidays.) Set up a recycling point for the school – liaise with businesses (Officeworks, Telstra, Woolworths, Coles) that already have recycling points in their premises <p>Transport</p> <ol style="list-style-type: none"> Students organise a ride to school day each term. Use the Public Transport Victoria app to plan a route to school or a popular venue. Organise a 'walking bus' route. Discuss the option of carpooling with other families in their street. <p>Food</p> <ol style="list-style-type: none"> Bring in items that are grown locally and examples of food sourced and grown overseas and discuss food miles. Photos can be taken of fruit and vegetable labels in grocery stores to ascertain where food originated from. Start a vegetable/herb patch. Produce can be sent home, or students could organise a 'Vege Swap' once a week inviting other community members to bring in excess produce to reduce wastage and build a sense of community. Analyse lunchboxes – where has the food 'come from?'

Upper primary lesson ideas

Page reference	Activity
Extension Positive choices action	<p>Plant native vegetation</p> <ol style="list-style-type: none"> 1. Speak to the local council/local nursery/Landcare representative about supplying seedlings for a tree planting day 2. Look at areas around the school that could be 'Cooled down with Greenery' <p>Minimise energy use</p> <ol style="list-style-type: none"> 1. Energy detectives walk around the school at recess and lunch turning off lights, air conditioners and computers. 2. Create 'Switch off' reminders around light switches. 3. Create optimum temperature signs around air-conditioned remotes to reduce energy usage. 4. Launch a 'Dress for the Weather' campaign when the weather starts cooling down. 5. Invite a solar panel installation company to talk to the students about solar panels and how much energy they could save. Students do a write up in the newsletter offering the company discount for school families that install solar panels. <p>Water</p> <ol style="list-style-type: none"> 1. Check the taps in the school have aerators/timers to reduce the water wastage. Check staff room, toilets and irrigation. 2. Place posters in the toilets about using the half flush when possible. 3. Place ice cream buckets under water fountains and any dripping taps. Use the water-to-water plants around the school 4. Write to the maintenance team asking for the need for irrigation to be monitored when it rains. Students install rain gauges and report back to the maintenance team. <p>Composting and Worm Farms</p> <ol style="list-style-type: none"> 1. Bendigo Organics Program Hints for your organic waste Compost Revolution 2. Discuss reducing food waste Reduce Food Waste 3. Build a worm farm for your class 4. Discuss innovative ways to use your food waste products – corn cobs for chickens, eggshells for the garden, coffee grounds for roses, banana peels for plants.


Upper primary lesson ideas

Page reference	Activity
Pg 16-19 Renewable energy	<ol style="list-style-type: none">1. Students use information sheets to research the different types of renewable energy Facts for students - Renewable Energy in Australia - FTfs2. Contact councils and businesses in the area about local renewable energy projects3. Watch the 3 videos on renewable energy projects of the future from the Loddon Mallee region Renewable Energy Initiatives Students can 'shark tank' their own possible renewable energy projects.
	

Upper primary lesson ideas

Page reference	Activity
Extension	<ol style="list-style-type: none">1. Invite a guest speaker From one of the Loddon Mallee renewable energy projects.2. Visit a local wind farm in the Loddon Mallee region.<ul style="list-style-type: none">• murrawarrawindfarm.com/• jungrenewableenergyfacility.com.au/• epicenergy.com.au/yawong-wind-farm/3. Build a model of a Sustainable House incorporating elements that keep the house cool in summer and warm in winter. Consider:<ul style="list-style-type: none">• Insulation• Energy sources• House orientation• Roofing• Doors and windows• Soft furnishing• Recycling/repurposing materials• Rainwater tanks• Waterwise plant selection• Chickens• Vegetable gardenskidcyber.com.au/sustainable-living4. Take part in Bendigo Sustainable House Day – October bsg.org.au/event/bendigo-sustainability-house-day/

Upper primary lesson ideas

Page reference	Activity
Pg 20 Wetland wandering 	<ol style="list-style-type: none">1. Create a SlideShow about the plight of Griffin, and present the information gathered throughout the unit on how we can help. Students present the slideshow at assembly and provide links on the school website for parents and the wider community to engage in.
Extension	<ol style="list-style-type: none">1. Use the letter/pledge as a springboard for ideas of student led actions that can be implemented in and around the school. Involve local sporting groups, independent supermarkets and local businesses to spread the word, and imbed their learning in practical solutions.



We hope you have enjoyed working through this Activity Book.
We would love to hear your feedback, stories and receive news about events that you have done in connection with these activities.
Please use the QR code to complete a quick three minute survey.

Let us know if you are happy to share your stories on our social media pages. We appreciate your time and any feedback you may have. Please contact us at info@adaptloddonmallee.com.au



We acknowledge the First Peoples of the Loddon Mallee and their/our longstanding, rich and resilient cultures, rights and responsibilities to Country and genuinely pay respect to their/our knowledge holders, leaders, Elders past, present and future.

