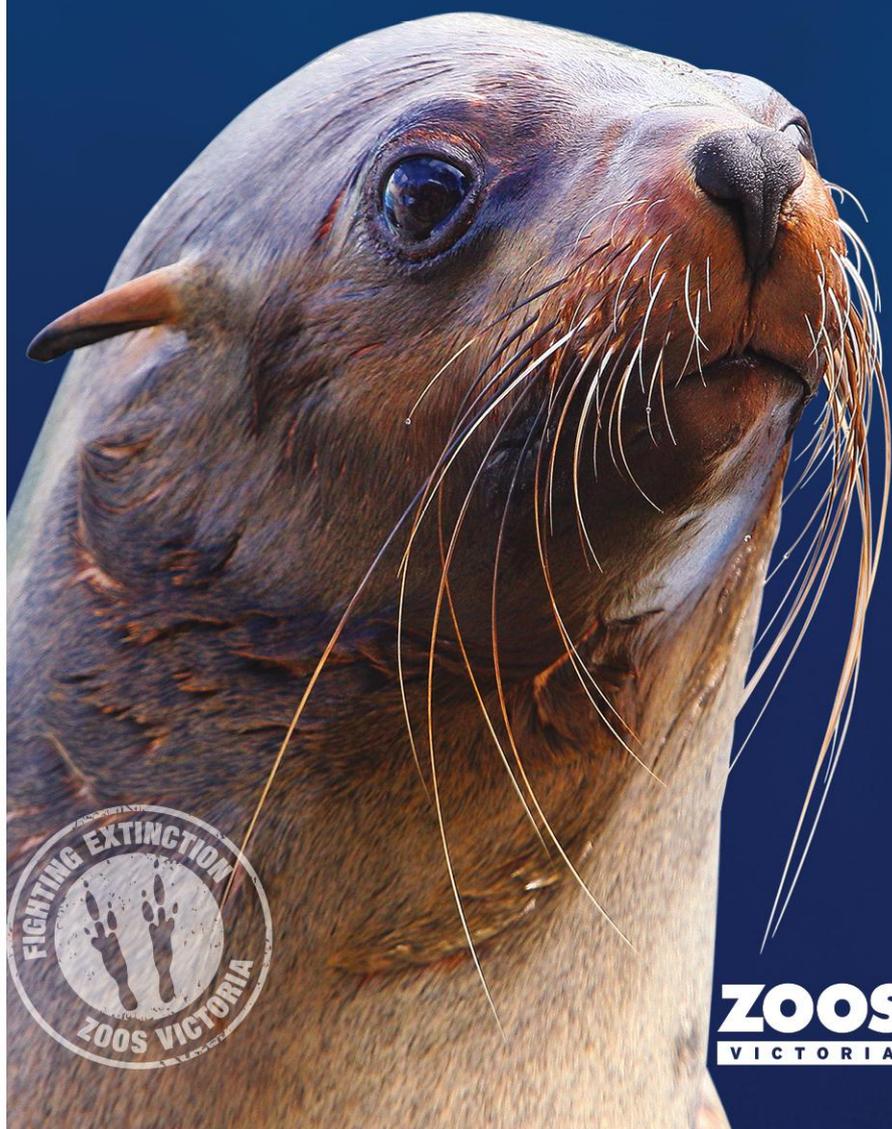




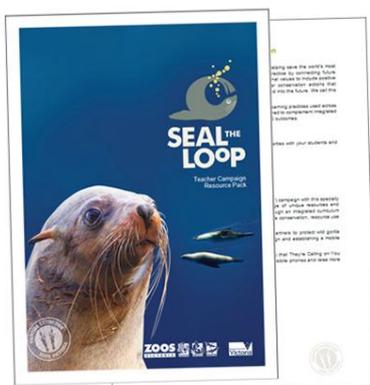
SEAL^{THE} LOOP

Teacher Resource



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Zoos Victoria is a not-for-profit zoo-based conservation organisation committed to fighting wildlife extinction.



Zoos Victoria: *Education for Conservation*

Zoos Victoria recognises that education is a vital step in helping save the world's most endangered wildlife. Our education programs reflect best practice by connecting future generations to the world's unique wildlife and shaping personal values to include positive conservation principles. In addition, programs provide clear conservation actions that contribute directly to saving species across the globe now and into the future. We call this practice *Education for Conservation*.

Zoos Victoria also aims to reflect the leading teaching and learning practices used across Victorian schools. As such, this teacher resource is designed to complement integrated curriculum units, inquiry-based learning and address AusVELS outcomes.

Want to know about *Education for Conservation*?

Feel free to [contact us](#), or better yet, visit one of our properties with your students and experience *Education for Conservation* in action.

Introduction to the Teacher Resource

Get involved in Zoos Victoria's *Seal the Loop* campaign with this specially designed Teacher Resource. With access to a range of unique resources and classroom ideas, this resource will help you guide students through an integrated curriculum experience exploring inquiry questions that investigate wildlife conservation, resource use and sustainability.

Schools can directly support the work Zoos Victoria and the conservation of marine wildlife by educating their local community about marine entanglement and the Seal the Loop campaign.

It is with the support of schools and the Victorian community that *Seal the Loop* has, since 2010, been able to engage more than 70 government and community groups, install more than 180 Seal the Loop recycle bins across Victorian beaches and waterways to remove more than 23 kilometres of waste fishing line from Victorian waters.

Thank you for your support.



Got a question?

We're here to help!

Get in contact with Zoos Victoria at any stage of your *Seal the Loop* journey using the details below.

Teachers

Email our Community Conservation Team via takeaction@zoo.org.au

Book a visit by calling 1300 966 784.

Students

Enquiries or questions can be directed to actwild@zoo.org.au



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Seal the Loop: Get involved

Key Action: Host a Seal the Loop Action Day event in your local community

There are many different ways that you and your students can become involved with the *Seal the Loop* campaign. Check out the list below for ideas and suggestions.

Things you can do

- ✓ Register for an upcoming Zoos Victoria [teacher professional development conference](#).
- ✓ Introduce students to *Seal the Loop* through your own, or the suggested, inquiry questions and classroom activities below.
- ✓ Join an upcoming student and/or teacher [web conference](#).
- ✓ Develop a marine entanglement awareness campaign for your local community and/or school.
- ✓ [Apply](#) to host a Zoos Victoria Seal the Loop Action Day event in your local community in November each year.
- ✓ Read through the Seal the Loop Action Day Pack which will be sent to your school following successful registration.
- ✓ Contact your local [coastal management group](#) to find out about pollution issues within your local environment and to support your Seal the Loop Action Day event.
- ✓ [Sponsor](#) a Seal the Loop bin near your local waterway/fishing spot.
- ✓ Become a Fighting Extinction school by sharing your *Seal the Loop* journey on our [Share your Story](#) page.

Want to do more?

- ✓ [Adopt](#) an animal with Zoos Victoria.



Seal the Loop and AusVELS

Zoos Victoria's conservation programs offer genuine case studies for student inquiry learning with strong links to AusVELS discipline-based learning domains and numerous other links to Physical, Personal and Social Learning as well as Interdisciplinary Learning domains.

The strongest curriculum links associated with *Seal the Loop* are highlighted below.

Best suited for students completing:

Year 4 to Year 10

Main AusVELS Domains:

Civics and Citizenship, Geography, Science, Economics (with opportunities to link to numerous other curriculum domains)

Strongest Curriculum Links

		Year 4	Year 5	Year 6	Year 7	Year 8	Year 9	Year 10
Civics and citizenship	Community Engagement							
	Civic knowledge and understanding							
Humanities	Humanities Knowledge and Understanding							
Economics	Economic knowledge and understanding							
	Economic reasoning and interpretation							
Geography ^{AC}	Geographical knowledge and understanding							
	Geographical inquiry and skills							
Science ^{AC}	Science Understanding							
	Science Inquiry Skills							
	Science as a Human Endeavour							



Linked curriculum standards or content description
Curriculum standard not available at this level



Inquiry Questions

Seal the Loop is a rich action-based program that provides real-world learning opportunities for students to explore, among others, the issues associated with wildlife conservation, resource use and sustainability.

Ideally, students can engage with *Seal the Loop* through [inquiry learning](#) opportunities that allow investigation of the following overarching and inquiry questions using the suggested resources further below. These suggested inquiry questions are connected to content descriptors and achievement standards in AusVELS.

Years 4 - 6

Overarching Question:

Can our actions and decisions affect species on the other side of the world?

Introduce *Seal the Loop*

- Where in Victoria would you travel to see a seal in their natural habitat?
- Which local place and seals near you would you choose to help save?
- How would you describe the differences between Australian Seal species?
- What do you believe is the 'perfect' seal habitat?
- What are some ways that you would explain the life cycle of a seal?
- What do you believe are the top features (adaptations) that seals have to help them survive?

Understand the Issues

- Do you believe that caring for coastal and marine environments is important?
- Which human activity do you believe poses the greatest threat to marine wildlife?
- What natural and human processes have caused changes to your closest seal habitat?
- What do you understand "marine entanglement" to mean?
- Do you believe fishing can be a sustainable activity?
- Why is fishing line a problem for marine wildlife?
- Which of your local marine species are at threat from marine entanglement?
- Do any of your daily activities have an impact on marine wildlife?
- Why do you think waste management problems are strongly linked to coastal and marine environments and species?

Act to save wildlife

- What could you do to reduce marine entanglement?
- What do you believe is the purpose of *Seal the Loop* bins?
- How can people become responsible fishermen?
- Who is responsible for looking after your local waterway and/or coastal environment?
- Where in your local community would a Seal the Loop bin be useful?
- How could you educate others about the link between *Seal the Loop* bins and marine wildlife?
- What are some alternative actions that could reduce marine entanglements and pollution?



Years 7 - 8

Overarching Question:

Why do individuals, communities and cultures differ in their opinion for or against wildlife conservation?

Introduce *Seal the Loop*

- Where is the closest place for you to travel to see seals in the wild?
- How do you explain the different characteristics of Australian seal species?
- Why do you believe seals are considered an intelligent species?
- What is the role of seals within their marine ecosystem?
- How do you think losing a species, such as seals, would impact on a local marine ecosystem?

Understand the Issues

- Which human activities impact, most positively and most negatively, on your local coastal environment?
- What do you understand 'marine entanglement' to mean?
- What do you believe is the primary cause of marine entanglement?
- Why is the deliberate design of fishing line such a problem for marine species?
- Which of your local marine species are at threat from marine entanglement?
- Do you believe that marine entanglement is an acceptable trade-off consequence for some human activities?
- Are there different attitudes within your local community to marine entanglement?

Act to save wildlife

- How would you reduce the occurrence of marine entanglement across Victoria?
- What do you believe are the objectives of the *Seal the Loop* campaign?
- How could *Seal the Loop* bins lead to a more positive future for marine species?
- Do you think that the problem of marine entanglement will get better or worse in the future?
- What could you change in your daily activities to help protect marine species?
- Who is responsible for looking after coastal environments in Victoria?
- How would you convince local fisherman to use the *Seal the Loop* bins?
- Where would you place a *Seal the Loop* bin in your local area to reduce marine entanglements?



Years 9 - 10

Overarching Question:

Is it inevitable that some wildlife species will become extinct for human development to progress?

Introducing *Seal the Loop*

- Where would you travel to see seals in the wild?
- How can you tell the difference between Australian seal species?
- Why do you think there are physical differences between seal species?
- What do you believe seals require in their marine environments to survive sustainably?
- Why do you think the geographical range of seals is restricted to Southern Australian waters?

Understanding the Issues

- How would you explain the issue of marine entanglement?
- Why do you think marine entanglement and marine debris is considered a complex international issue?
- Do any of the human activities of communities near your local marine environment contribute to marine entanglement?
- Which of your local marine species are at threat from marine entanglement?
- Who do you believe is responsible for the future protection of marine species?
- If a species is not endangered, do you think time, effort and money should be spent to protect it?
- Why do you think an environmentally responsible fishing line has not been successful in reducing marine entanglement?

Act to save wildlife

- Do you think that the problem of marine entanglement is more likely to get better or worse in the future?
- What do you understand the purpose of *Seal the Loop* bins to be?
- How could *Seal the Loop* bins lead to a more positive future for marine species?
- Who is responsible for looking after coastal environments in Victoria?
- Where would you place a *Seal the Loop* bin in your local area to reduce marine entanglements?
- How can you raise community awareness of marine entanglement issues within your local marine environment?
- Can you find any additional conservation actions that communities can undertake to protect marine species?



Resources

Below are a range of identified resources which students can use to begin researching the inquiry questions above.

About *Seal the Loop*

Program page

<http://www.zoo.org.au/get-involved/act-for-wildlife/seal-the-loop>

Seal the Loop Information Poster

<http://www.zoo.org.au/sites/default/files/seal-the-loop-zoos-victoria.pdf>

Seal the Loop Resources

Seal the Loop Bin registration form

<http://www.zoo.org.au/sites/default/files/STL-2014-rego-form.pdf>

Seal the Loop Bin Location Map

<https://www.google.com/maps>

Digital Learning Resources

Sign up for Education and Conservation updates

<http://www.zoo.org.au/enews>

Mobile phone seal ringtone

<http://www.actwild.org.au/wildschools/video-mashups/>

Act Wild

<http://www.actwild.org.au/animals/seal/>

Seal Posts

<http://www.actwild.org.au/zoofeeds/?tag=seals>



Seals and other marine species

Zoos Victoria

<http://www.zoo.org.au/melbourne/animals/australian-fur-seal>

<http://www.zoo.org.au/melbourne/animals/australian-pelican>

<http://www.zoo.org.au/melbourne/animals/little-penguin>

Seals and People Brochure DELWP

<http://www.zoo.org.au/sites/default/files/DELWP-Seals>

Marine Mammal Identification Guide

www.depi.vic.gov.au/environment-and-wildlife/wildlife/whales-dolphins-and-seals

IUCN Red List

<http://www.iucnredlist.org/>

AGL Marine Response Unit

Zoos Victoria

<http://www.zoo.org.au/news/a-first-for-victorias-marine-mammals>

Introduction to AGL Marine Response Unit

<http://www.vic.gov.au/news/agl-marine-response-unit.html>

Introduction Video

<https://www.youtube.com/watch?v=a1UpIQOGJfw>

News Articles

<http://www.theage.com.au/victoria/marine-wildlife-pays-price-for-our-waste-20130510-2jdfy.html>

<http://www.heraldsun.com.au/leader/news/zoos-victorias-agl-marine-response-unit-is-saving-the-lives-of-distressed-entangled-and-injured-animals/story-fnglekhp-1227261480530>

Marine pollution and entanglement

Harmful Marine Debris

<http://www.environment.gov.au/system/files/resources/9195dcd0-52eb-45c4-8b3f-7796e530b4e2/files/marine-debris.pdf>

Plasticized Movie

<https://www.youtube.com/watch?v=dfcRW7slrPI>

Whale and Dolphin Entanglement

http://www.depi.vic.gov.au/_data/assets/pdf_file/0005/205907/6.3_Cetacean_Entanglement_Fact_Sheet_v3.pdf

The nurdles' quest for ocean domination - TED Presentation

<https://www.youtube.com/watch?v=KpVpJsDjWj8>



Recreational Fishing

Victorian Recreational Fishing Guide

<http://www.depi.vic.gov.au/fishing-and-hunting/fishing-guides/recreational-fishing-guide>

Responsible Fishing

<http://www.dpi.nsw.gov.au/fisheries/recreational/publications/recreational-fishing-codes-of-practice/wildlife-injuries>

Biodegradable Fishing Line

<http://www.recycledfish.org/safe-angling/product-profiles/bioline.htm>

Other Organisations

Cool Australia

www.coolaustralia.org/unit/seal-loop-marine-action-primary/
www.coolaustralia.org/unit/seal-loop-marine-action-secondary/

Take 3 Initiative

<http://www.take3.org.au/>

Two Hands Project

<http://www.twohandsproject.org/>

Australian Marine Conservation Society

<http://www.marineconservation.org.au/>

Beach Patrol

<http://www.beachpatrol.com.au/>

