



Resource Book Links

This is a full listing of links included in the 2024 teacher resource book *Species Survival: More than just sustainability* (17.5 MB, pdf).

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Introduction

- Midges pollinating cacao <https://theconversation.com/tiny-cacao-flowers-and-fickle-midges-are-part-of-a-pollination-puzzle-that-limits-chocolate-production-154334>
- Bee decline <https://academic.oup.com/ae/article/64/3/134/5098349>
- Monoculture crops <https://ec.europa.eu/research-and-innovation/en/horizon-magazine/rise-and-fall-monoculture-farming>
- Diverse crops <https://extension.unr.edu/publication.aspx?PubID=3816>
- Species diversity and clean water <https://news.mongabay.com/2011/04/more-biodiversity-equals-cleaner-water-but-why/>
- Species harmed by climate change <https://www.environment.gov.au/cgi-bin/sprat/public/publicthreatenedlist.pl>
- Additional deaths from climate change <https://www.who.int/news-room/fact-sheets/detail/climate-change-and-health>
- Wildlife corridors <https://www.dcceew.gov.au/environment/biodiversity/conservation/wildlife-corridors>
- Living shorelines <https://www.fisheries.noaa.gov/insight/understanding-living-shorelines>
- Threatened species <https://www.iucnredlist.org/>
- Threatened Australian plants <https://www.theguardian.com/environment/2023/oct/10/australia-doing-very-poorly-at-protecting-unique-plants-researchers-warn>



- Countries with most endemic species <https://www.kew.org/sites/default/files/2023-10/State%20of%20the%20World's%20Plants%20and%20Fungi%202023.pdf>
- Extinct Australian land mammals <https://soe.dcceew.gov.au/overview/environment/biodiversity>
- Australia's national reserve system <https://www.dcceew.gov.au/environment/land/nrs>
- Sniffing out platypus burrows <https://www.theguardian.com/australia-news/2022/feb/04/weve-never-seen-a-platypus-lay-an-egg-sniffer-dogs-to-aid-researchers-by-detecting-occupied-burrows>
- Dropped off the threatened species list (1) <https://www.theguardian.com/australia-news/2023/feb/23/conservation-efforts-celebrated-as-26-australian-species-no-longer-listed-as-threatened>
- Dropped off the threatened species list (2) <https://www.sciencedirect.com/science/article/pii/S0006320723000460?%23t0010>
- 40,000 whales <https://www.abc.net.au/news/2023-10-22/east-coast-humpback-whale-population-record-high-experts-say/102990590>
- All's well with whales <https://www.dcceew.gov.au/environment/marine/publications/humpback-whales-eastern-australia>

Community Activities

- Atlas of Living Australia <https://www.ala.org.au/>
- Plantnet app (App Store) <https://apps.apple.com/au/app/plantnet/id600547573>
- Plantnet app (Google Play) <https://play.google.com/store/apps/details?id=org.plantnet&hl=en&gl=US&pli=1>
- iNaturalist app (App Store) <https://apps.apple.com/au/app/inaturalist/id421397028>
- iNaturalist app (Google Play) <https://play.google.com/store/apps/details?id=org.inaturalist.android&hl=en&gl=US>
- CSIRO Insect ID <https://www.csiro.au/en/research/animals/insects/ID-Resources>
- Field Guide Apps <https://museums victoria.com.au/apps/national-field-guide-apps/>
- Junior worm farm https://juniorlandcare.org.au/learning_activity/creating-a-worm-farm/
- Living sea walls <https://www.livingseawalls.com.au/>
- Build a possum box <https://www.backyardbuddies.org.au/habitats/build-a-nest-box/>
- Conservation Volunteers <https://conservationvolunteers.com.au/>

Species Game

- Species Game on Scratch <https://scratch.mit.edu/projects/920253589>



Foundation to Year 2

- Threatened insect extinctions <https://blog.csiro.au/scientists-fear-insect-populations-decline-ways-to-help/>
- Bogong moths <https://www.theguardian.com/environment/2019/feb/25/decline-in-bogong-moth-numbers-leaves-pygmy-mountain-possums-starving>
- Sugarbee honey <https://www.abc.net.au/news/2018-01-21/native-honeybees-provide-popular-bush-tucker/9333278>
- Biodiversity and human health <https://cosmosmagazine.com/health/why-losing-australias-biodiversity-matters-for-human-health/>
- Bug hunt with Costa <https://www.youtube.com/watch?v=i6vHTfdMCVs>
- Peep Plants a Seed <https://www.peepandthebigwideworld.com/en/kids/videos/35/peep-plants-a-seed/>
- Tiny Tadpoles <https://www.tinytap.com/activities/g3ayk/play/catching-tadpoles-more-or-less-counting>
- Create a Scratch game <https://www.youtube.com/watch?v=itru0SrXc0o>

Year 3 - Year 4

- Australian extinctions <https://www.wilderness.org.au/protecting-nature/biodiversity-and-extinction>
- Habitat loss <https://www.ipsos.com/sites/default/files/ct/publication/documents/2022-04/Ipsos%20Climate%20Change%20Report%202022.pdf>
- Bush Blitz TeachLive <https://earthwatch.org.au/education/teacher-development/about-teachlive>
- Citizen science findings <https://www.csiro.au/en/news/all/news/2023/september/aussies-provide-more-than-62-million-species-records-for-conservation-research>
- FrogID <https://australian.museum/get-involved/citizen-science/frogid/>
- Aussie Bird Count <https://aussiebirdcount.org.au/>
- ReefCloud <https://reefcloud.ai/how-it-works>
- 10 million observations <https://theconversation.com/citizen-scientists-collect-more-nature-data-than-ever-showing-us-where-common-and-threatened-species-live-212372>
- Australian Citizen Science Association <https://citizenscience.org.au>
- Living Planet Index https://www.livingplanetindex.org/about_index
- Living Planet Report 2022 <https://livingplanet.panda.org/>
- Maths in Conservation <https://www.natureconservancy.ca/en/blog/archive/it-all-adds-up-the.html>
- Fishery and ocean diversity modelling <https://science.uq.edu.au/article/2023/08/maths-model-improve-fisheries-and-ocean-biodiversity>



- Citizen science projects <https://science.uq.edu.au/article/2023/08/maths-model-improve-fisheries-and-ocean-biodiversity>
- Identifying birds <https://www.birdsinbackyards.net/finder>
- Costa creating a bee hotel <https://www.youtube.com/watch?v=OXkofBSOtOg>
- Smart garden device <https://www.digitaltechnologieshub.edu.au/search/dt-challenge-5-6-blockly-smart-garden/>

Year 5 - Year 6

- Associate Professor Bradley Moggridge <https://researchprofiles.canberra.edu.au/en/persons/brad-moggridge>
- Aboriginal words <https://www.indigenous.gov.au/news-and-media/announcements/iy2019-ancient-words-iconic-australian-animals>
- Gurray app <https://apps.apple.com/au/app/gurray/id1513495735>
- Kamilaroi water scientist <https://careerswithstem.com.au/profiles/kamilaroi-water-scientist/>
- Fish traps <https://www.mpra.com.au/brewarrina-fish-traps>
- Cool burning <https://www.youtube.com/watch?v=RM72NtXxyLs>
- Watarrka Foundation <https://www.watarrkafoundation.org.au/blog/aboriginal-fire-management-what-is-cool-burning>
- Exploring Gayini <https://www.natureaustralia.org.au/what-we-do/our-priorities/land-and-freshwater/land-freshwater-stories/gayini/>

Year 7 - Year 8

- Invasive Species Council <https://invasives.org.au/our-work/feral-animals/>
- Damage from cane toads <https://www.bushheritage.org.au/what-we-do/landscape-management/ferals>
- Ecological and agricultural damage <https://www.bushheritage.org.au/what-we-do/landscape-management/ferals>
- Tracking feral animals <https://www.csiro.au/en/research/indigenous-science/managing-country/tracking>
- Pig traps <https://www.abc.net.au/news/rural/2020-07-16/feral-pig-trap-technology-linked-to-mobile-phone/12453226>
- Breeding programs https://www.aph.gov.au/Parliamentary_Business/Committees/Senate/Rural_and_Regional_Affairs_and_Transport/Completed_inquiries/Pre_1999/wild/report/c18
- Bilby breeding <https://taronga.org.au/conservation-and-science/current-research/greater-bilby>



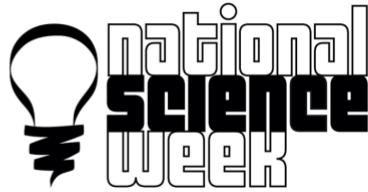
- Scent based management <https://taronga.org.au/conservation-and-science/current-research/scent-based-management>
- One third of species are in botanic gardens <https://www.bgci.org/news-events/worlds-botanic-gardens-contain-a-1-3-of-all-known-plant-species>
- Royal Botanic Gardens Victoria <https://www.rbg.vic.gov.au/science/research/>
- Botanic Gardens of South Australia <https://www.botanicgardens.sa.gov.au/science-conservation/seed-conservation-centre>
- Global seed bank https://en.wikipedia.org/wiki/Svalbard_Global_Seed_Vault
- Camera trapping <https://wwf.panda.org/discover/our-focus/wildlife-practice/camera-traps/>
- Acoustic monitoring <https://wwf.org.au/blogs/rewilding-the-platypus/>
- Scalloped hammerheads <https://theconversation.com/critically-endangered-scalloped-hammerheads-gather-in-seas-off-perth-they-need-protection-213258>
- Western quolls <https://www.australianwildlife.org/drone-tech-tracks-reintroduced-quolls-at-mt-gibson-wildlife-sanctuary/>
- AI analysing infrared images <https://cosmosmagazine.com/nature/mapping-australian-wildlife-with-the-help-of-drones-ai-and-citizen-scientists/>
- FrogID <https://www.frogid.net.au/science>
- Tracking feral animals <https://www.csiro.au/en/research/indigenous-science/managing-country/tracking>
- Whale snot TedXMelbourne <https://www.youtube.com/watch?v=2PXgFoTtwi0>
- Vanessa Pirrota's work <https://iview.abc.net.au/video/DC2103H004S00>
- Beluga hematology and serum values <https://meridian.allenpress.com/jwd/article/24/2/220/117865/HEMATOLOGY-AND-SERUM-CHEMISTRY-VALUES-IN-THE>
- Random numbers video <https://www.youtube.com/watch?v=mQ-Vit075pY>
- Random numbers tutorial https://github.com/veryacademy/Python-Beginner-PY001/blob/main/006_Random.md
- Python tutorial <https://www.digitaltechnologieshub.edu.au/search/tutorial-python/>

Year 9 - Year 10

- 8.7 million species <https://www.nature.com/articles/news.2011.498>
- Fruit fly genes <https://biology.ucdavis.edu/research/model-organisms/fruit-fly>
- Thylacine genome <https://pursuit.unimelb.edu.au/articles/piecing-thylacine-dna-back-together>
- Numbat genome <https://theconversation.com/weve-decoded-the-numbat-genome-and-it-could-bring-the-thylacines-resurrection-a-step-closer-176528>



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- Genetic diversity <https://www.npr.org/sections/thetwo-way/2017/12/12/570096984/lack-of-genetic-diversity-may-have-doomed-tasmanian-tiger-scientists-say>
- Eastern barred bandicoot breeding <https://www.zoo.org.au/fighting-extinction/local-threatened-species/eastern-barred-bandicoot-mainland-population/>
- Eastern barred bandicoot success <https://www.smithsonianmag.com/science-nature/how-australias-eastern-barred-bandicoot-came-back-from-extinction-180978958/>
- Shared genes <https://education.nationalgeographic.org/resource/genes-are-us-and-them/>
- DNA spells evolution <https://www.khanacademy.org/science/ap-biology/natural-selection/population-genetics/v/dna-spells-evolution>
- DNA extraction <https://www.scienceweek.net.au/diy-science-dna-extraction/>