

STATE LIBRARY¹
QUEENSLAND

Year 7 Biological Sciences

Cover: Selection of databases available through State Library, 2023.

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Teachers can advise students on State Library's resources and encourage their use to help with their studies and research. Students are encouraged to access State Library's resources at school, but not during class time.

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For other information visit [Understanding copyright](#) or contact State Library at copyright@slq.qld.gov.au

Overview

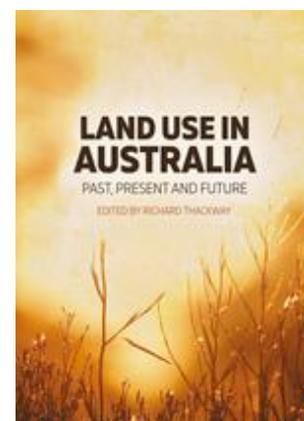
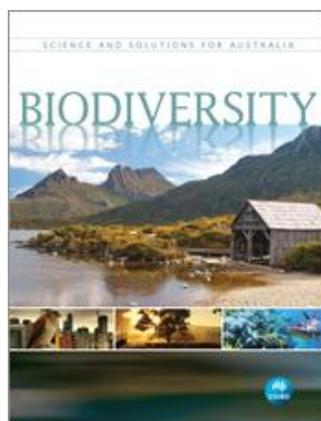
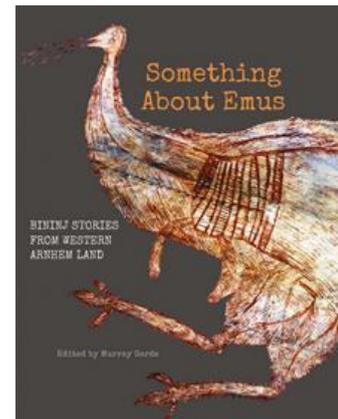
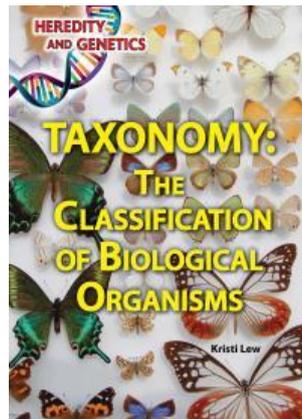
As Queensland's leading research library, State Library is a great place to find information to complete your research-based assessments.

State Library's One Search catalogue is the gateway to an extensive suite of national and international journals, databases, eBooks, encyclopedias, newspaper archives, and collections of thousands of historical images, letters, artworks, diaries, and artefacts to interrogate as sources.

Before you get started

[Become a member](#) of State Library of Queensland (it's free!). Once you have joined State Library, [log in](#) to your account in One Search so you can use the links in this research guide to access the featured collection items. You can search our [OneSearch catalogue](#) or begin exploring by clicking on some of the featured items contained in this research guide.

Featured E-Books & Publications



Order and Classification

Investigate the role of classification in ordering and organising the diversity of life on Earth and use and develop classification tools including dichotomous keys.

- Observing and identifying the similarities and differences of particular features within and between groups of organisms.
- Creating and modifying a dichotomous key to classify organisms into groups and groups within groups.
- Naming and classifying species using scientific conventions from the Linnaean hierarchical classification system, such as kingdom, phylum, class, order, family, genus, species.
- Considering the reasons for classifying living things, such as identification and communication.
- Examining how biological classification has changed over time through improvements in microscopy.
- Using provided dichotomous keys to identify organisms surveyed.
- Investigating First Nations Australians' systems of classifying living things and how these systems differ from those used by contemporary science.

Food Webs and Ecosystems

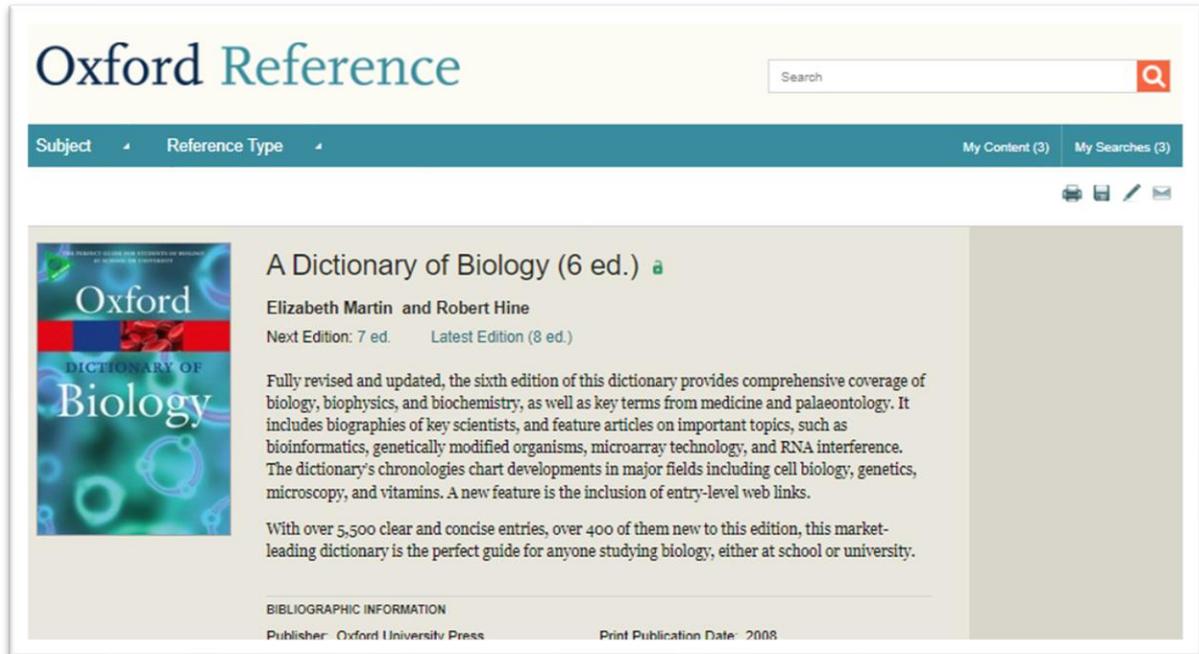
Use models, including food webs, to represent matter and energy flow in ecosystems and predict the impact of changing abiotic and biotic factors on populations.

- analysing food webs to show feeding relationships between organisms in an ecosystem and the role of microorganisms.
- modelling how energy flows into and out of an ecosystem via the pathways of food webs.
- predicting the effects on local ecosystems when living things such as pollinators or predators are removed from or die out in an area.
- examining how events such as seasonal changes, destruction of habitat or introduction of a species impact abiotic and biotic factors and cause changes to populations.
- investigating First Nations Australians' responses to invasive species and their effect on food webs that many communities are a part of, and depend on, for produce and medicine.
- considering how First Nations Australians' fire management practices over tens of thousands of years have changed the distribution of flora and fauna in most regions of Australia.

Featured Databases

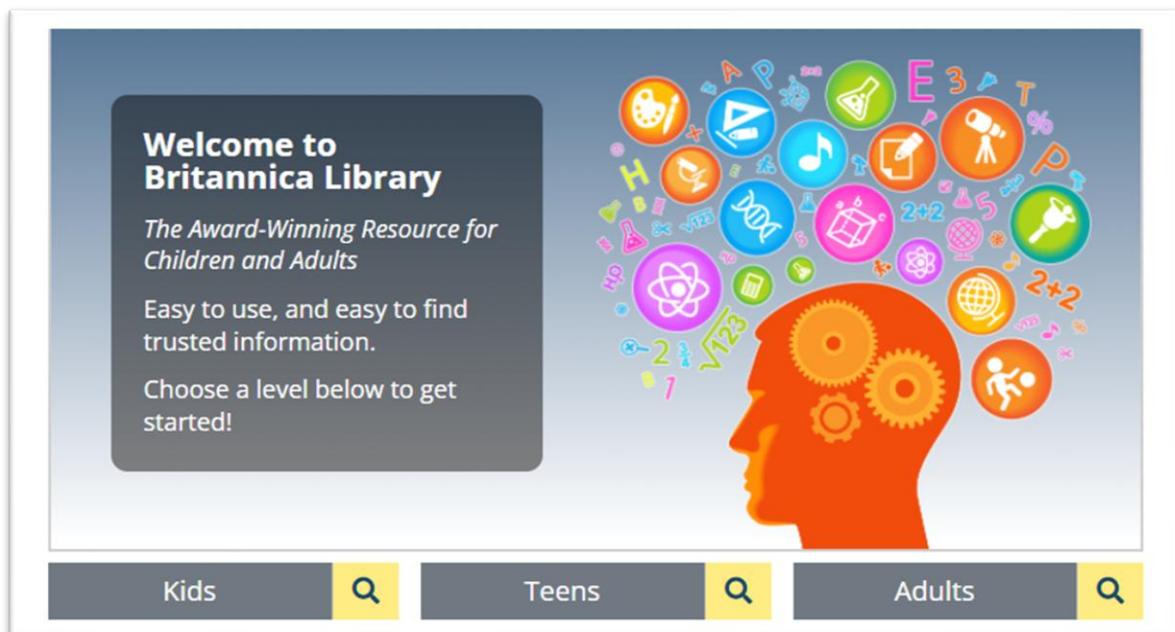
For easy reference

[Oxford Reference](#) spans 25 different subject areas, bringing together 2 million digitised entries across Oxford University Press's dictionaries, companions, and encyclopedias.



The screenshot shows the Oxford Reference website interface. At the top, the 'Oxford Reference' logo is on the left, and a search bar is on the right. Below the logo, there are navigation tabs for 'Subject' and 'Reference Type'. On the right side of the header, there are links for 'My Content (3)' and 'My Searches (3)'. The main content area features a book cover for 'Oxford Dictionary of Biology' on the left. To the right of the cover, the title 'A Dictionary of Biology (6 ed.)' is displayed, followed by the authors 'Elizabeth Martin and Robert Hine'. Below the authors, it indicates 'Next Edition: 7 ed.' and 'Latest Edition (8 ed.)'. A detailed description of the dictionary follows, highlighting its comprehensive coverage of biology, biophysics, and biochemistry, as well as key terms from medicine and palaeontology. It also mentions biographies of key scientists and feature articles on important topics like bioinformatics, genetically modified organisms, microarray technology, and RNA interference. The description notes that the dictionary's chronologies chart developments in major fields including cell biology, genetics, microscopy, and vitamins, and that a new feature is the inclusion of entry-level web links. At the bottom of the entry, there is a section for 'BIBLIOGRAPHIC INFORMATION' with the publisher 'Oxford University Press' and the 'Print Publication Date: 2008'.

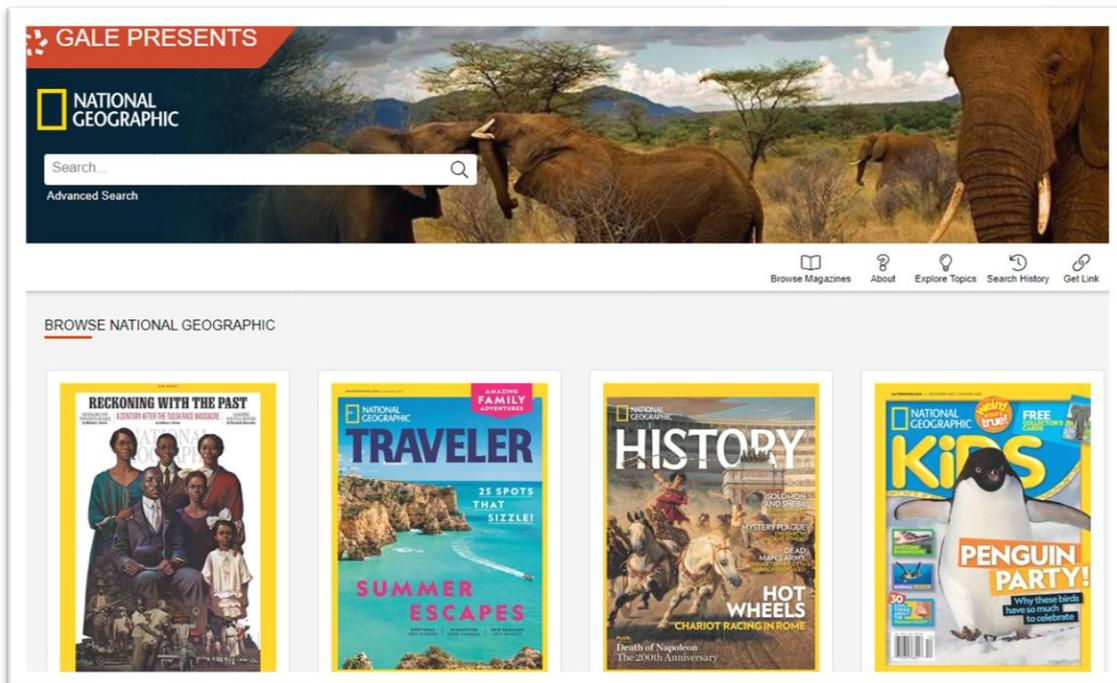
The [Britannica Library](#) has articles, images and more, with a selection of resources especially for teenagers.



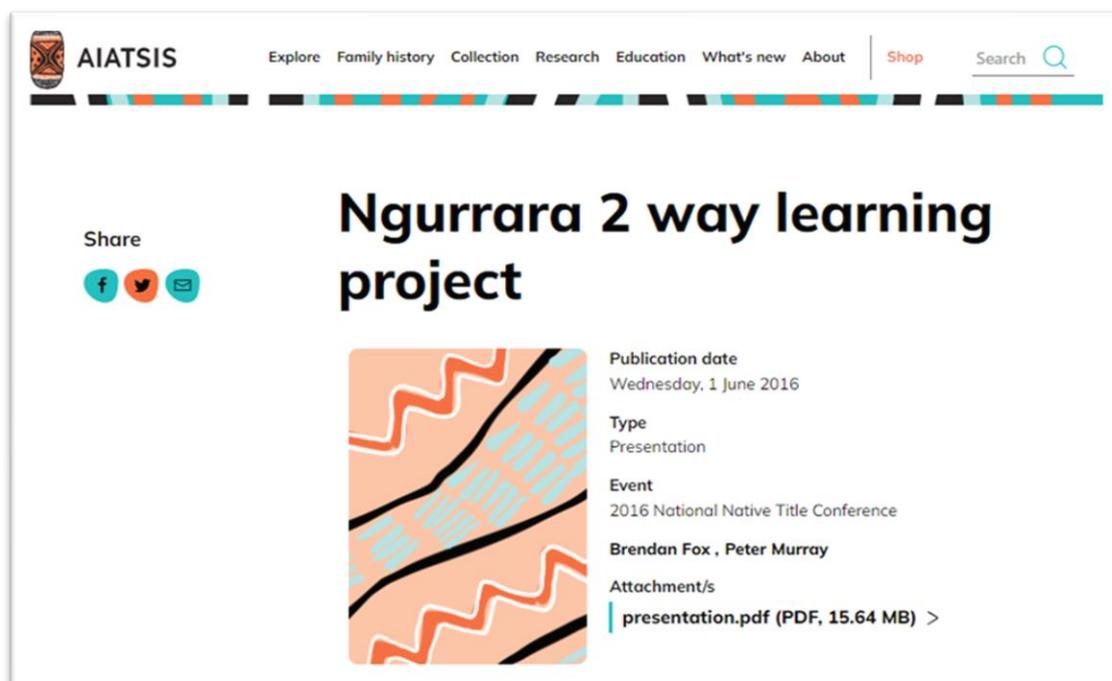
The screenshot shows the Britannica Library website. On the left, a dark grey box contains the text: 'Welcome to Britannica Library', 'The Award-Winning Resource for Children and Adults', 'Easy to use, and easy to find trusted information.', and 'Choose a level below to get started!'. To the right of this box is a large graphic of a human head profile in orange, with various colorful icons representing different subjects like science, art, music, and mathematics floating around it. At the bottom of the page, there are three navigation buttons: 'Kids', 'Teens', and 'Adults', each with a search icon to its right.

For engaging reading

[National Geographic Virtual Library](#) is a powerful tool for research offering access to over 100+ years of magazines and hundreds of books, maps, videos, and images.



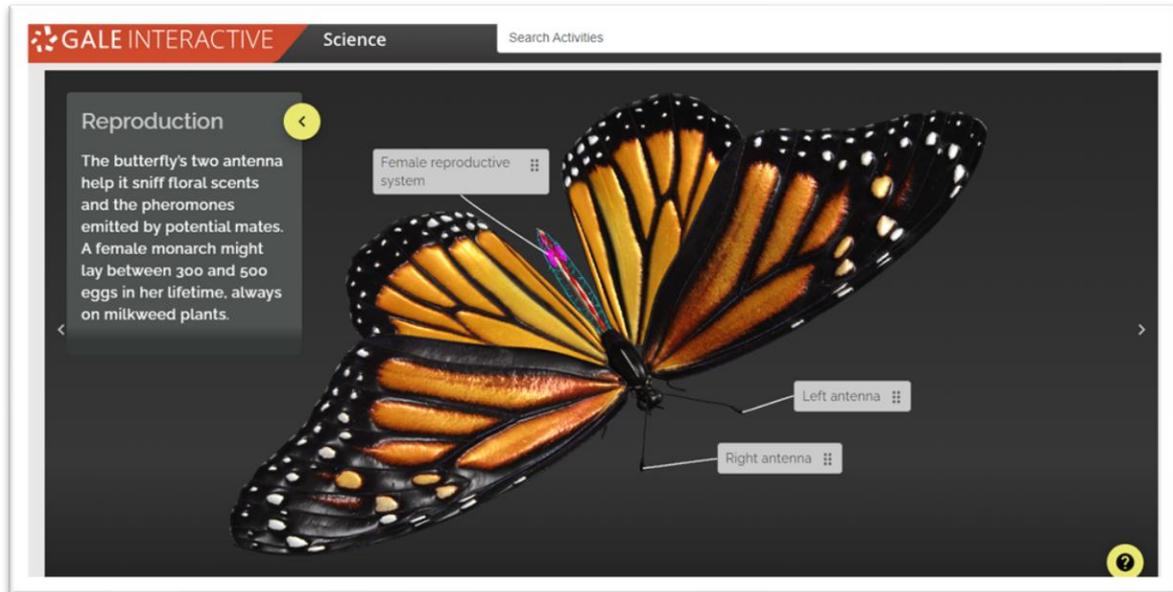
The [Australian Institute Aboriginal and Torres Strait Islander Studies](#) is a powerful tool for First Nations reading and research. Their online database and research projects can provide incredible insight into science from the First Nations perspective.



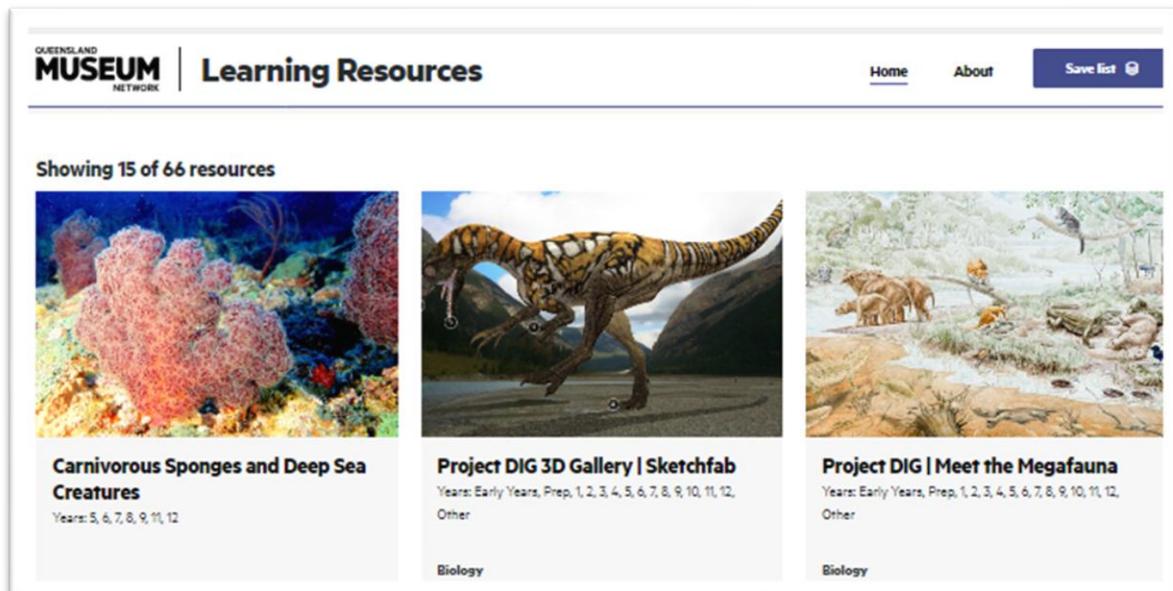
Specialist databases

Science

[Gale Interactive: Science](#) provides a comprehensive view of the most-studied science subjects. Authoritative, high-quality digital content is paired with interactive 3D models.



[Queensland Museum](#) provide Learning Resources website students with many activities, fact sheets, images, and videos.



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