



STATE LIBRARY⁷
QUEENSLAND

Year 9

Biological Sciences

Student research guide

Unit 1 – Body Systems

Unit 2 – Reproductive Systems

Cover: [Brilliant orchid growing near the Tinaroo Lake area, Queensland, 1984](#), Ron Gale, [Ron and Ngaire Gale Collection ca. 1980s](#), State Library of Queensland. Image number: 401-26-05. [CC-BY 4.0](#)

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Date prepared: 24 November 2023

Date revised: 04 March 2026

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Please note, due to licensing arrangements, State Library of Queensland's subscription databases and ebooks are for private research and study purposes only. They may not be used as teaching resources in classroom environments in schools or other educational institutions and students must not be required to access specific databases or ebooks as part of the curriculum.

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.

Teachers are most welcome to advise students what is available via State Library, and to encourage students to make use of ebooks and databases to help with their studies. It is permissible for a teacher to demonstrate the use of State Library's catalogue, and to point out how various online material can be accessed.

It is also permissible for students to access State Library's online resources at school – but this must not be during class time. An example of permitted use might be where students have a spare period when they work on assignments or homework, and they are accessing databases as private members of State Library. Information about joining State Library is [here](#).

Please also note that State Library has digitised a range of material such as diaries, and out of copyright publications held in our collections. There are no restrictions on the use of this material as part of a teaching program – and no requirement to be a member of the library to use this material. This type of material can easily be found, [searching State Library's One Search catalogue](#) using the "SLQ digitised collections" option in the dropdown menu.

For more information about the use of copyright materials visit [Understanding copyright](#).

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.
- Complete the [Student research with State Library](#) module for a guide to navigating State Library's resources. Or visit the [One Search help page](#) for tips & tricks for searching One Search.
- You can search our [OneSearch catalogue](#) or begin exploring by clicking on some of the featured items contained in this research guide.

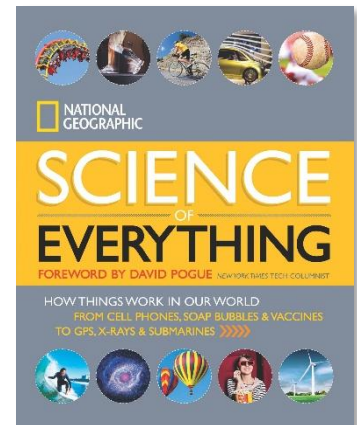
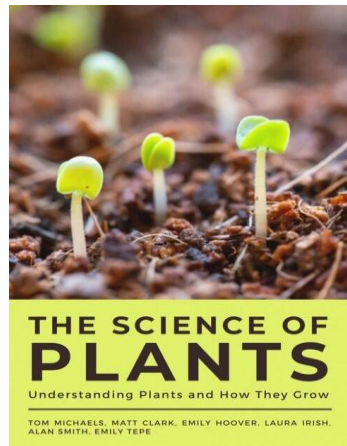
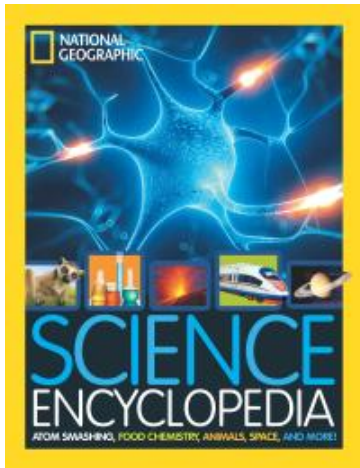
Student research with State Library

Feel more confident navigating State Library's resources to find high quality information sources for your assessments.

[Start module](#) 

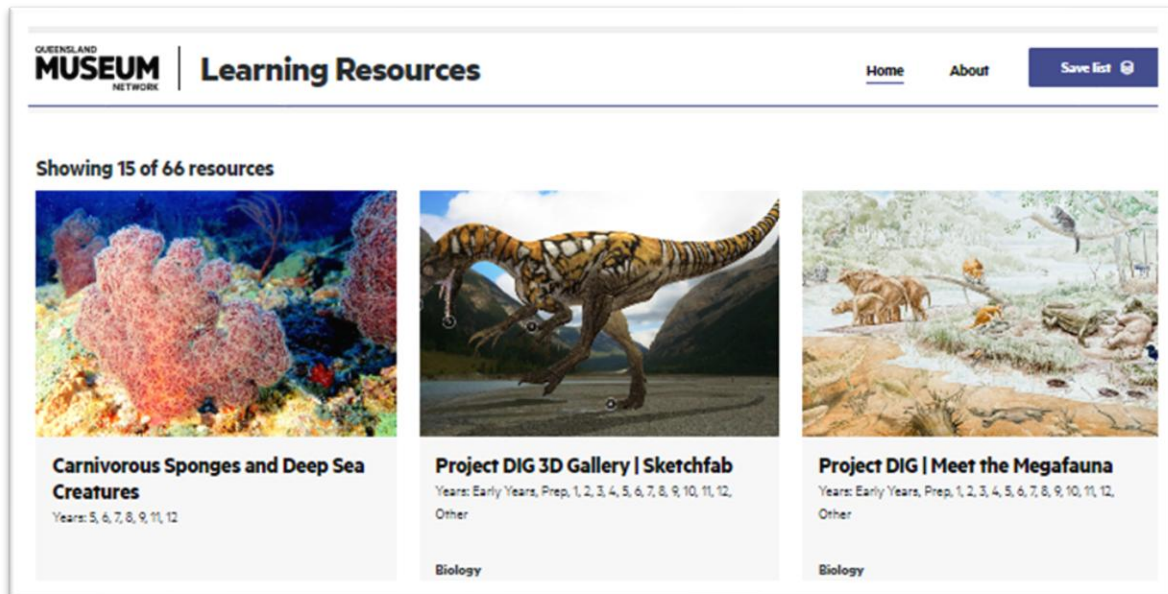


Featured ebooks

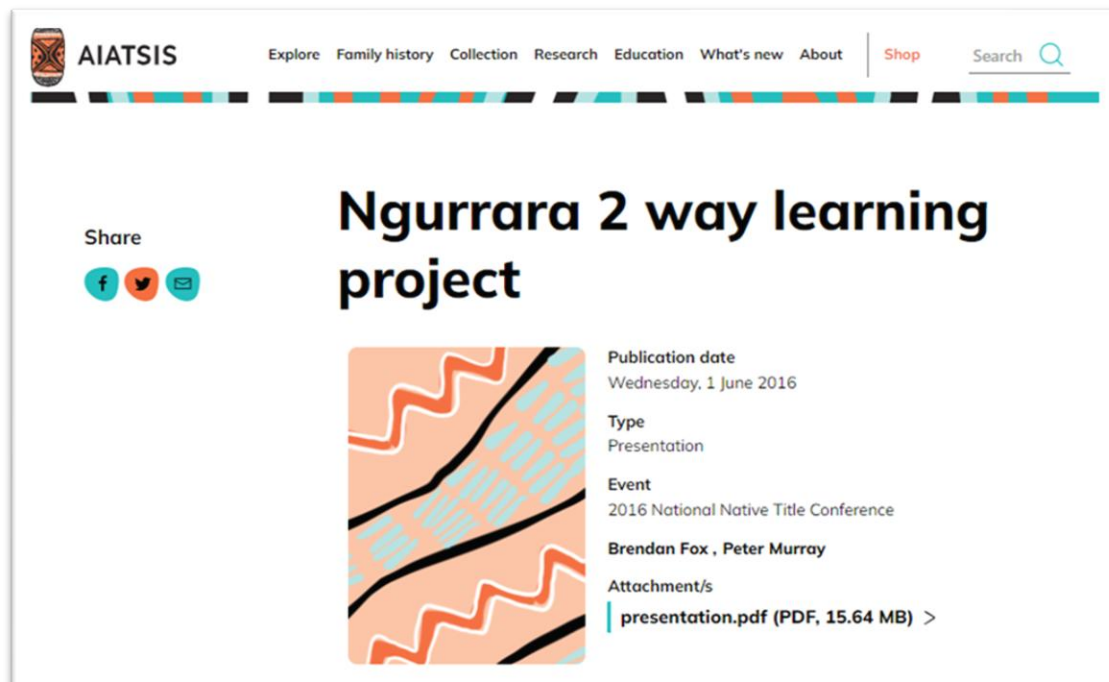


Featured databases

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



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.



Body Systems

Compare the role of body systems in regulating and coordinating the body's response to a stimulus, and describe the operation of a negative feedback mechanism

- exploring the body's observable responses to external stimuli (such as changes in light or temperature, or presence of danger or pathogens) or internal stimuli (such as dehydration or hunger).
- using models, flow diagrams and virtual simulations to explore and represent the relationships between body systems that are necessary to coordinate a response to stimuli.
- comparing the role and function of electrical impulses and hormones in the body's responses to external stimuli.
- modelling how the process of regulation is monitored and adjusted by connections between the receptor, command centre and effector.
- examining the effects of a disorder in a feedback system, such as diabetes-induced blindness or hypothermia.
- considering how understanding of feedback mechanisms has enabled the development of pharmaceuticals and other products to address issues or enhance performance, such as insulin or electrolytes in sports drinks.

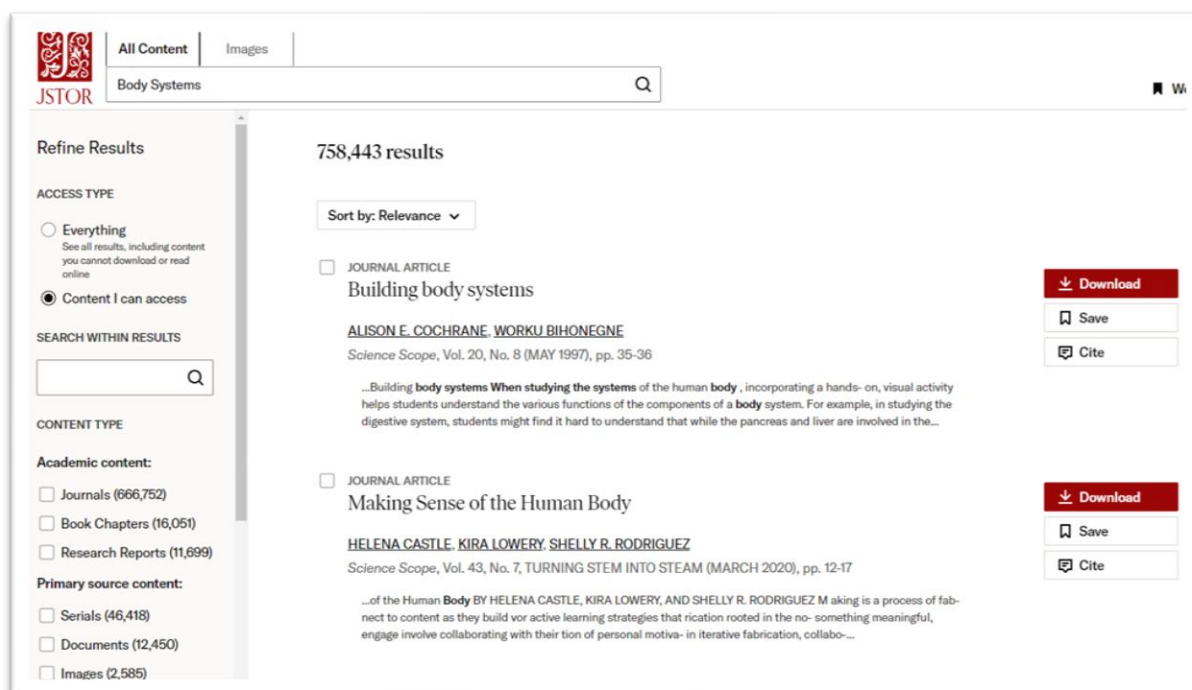
[Oxford Reference](#) spans 25 different subject areas, bringing together 2 million digitised entries across Oxford University Press's dictionaries, companions, and encyclopedia

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 tabs for 'Subject' and 'Reference Type'. The main header area includes 'My Content (0)' and 'My Searches (0)'. The search results section is titled 'Oxford Reference Search Results'. On the left, there's a sidebar with 'Signed in as: State Library of Queensland' and a 'Narrow Your Choices' section with 'REFINE TERMS' and a dropdown menu. The main content area shows 'You are looking at 1-20 of 237 entries for:'. Below this, there are filters for 'All: Body Systems and Biology', 'Science and technology', and 'Life Sciences'. A 'View:' section shows 'Items per page: 20' and 'Sort by: Relevance'. The search results list 'blood vascular system' with a reference type of 'Overview Page' and a subject of 'Science and technology, Life Sciences'. The description reads: 'The tissues and organs of an animal that transport blood through the body. In vertebrates it consists of the heart and blood vessels. See vascular system'.

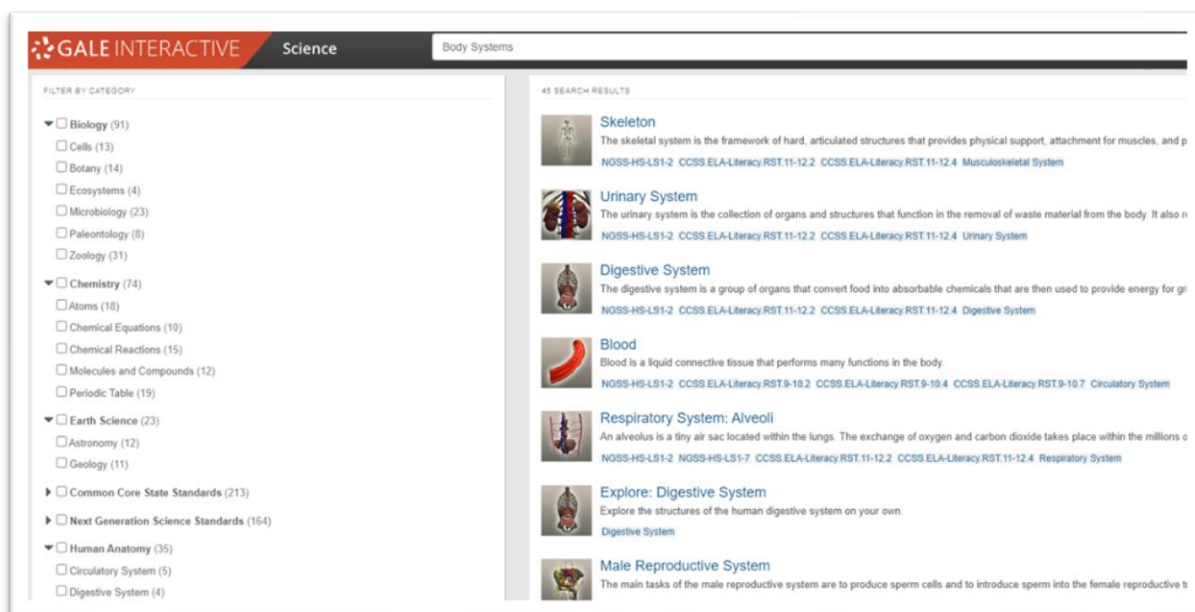
The [Britannica Library](#) has articles, images and more, with a selection of resources especially for teenagers.

The screenshot shows the Britannica Library website interface. At the top, there are tabs for 'Articles', 'Images', 'Videos', and 'More'. The main content area is titled 'human body' with a star icon. Below this, there's a definition: 'human body | the physical substance of the human organism, composed of living cells and extracellular materials and organized into tissues, organs, and ...'. Another entry is 'human nervous system (anatomy)' with a star icon, defined as 'nervous system, human | system that conducts stimuli from sensory receptors to the brain and spinal cord and conducts impulses back to other parts of the ...'. Below these entries, there's a section 'images related to this search:' with a 'See all images' link. It displays four images: a diagram of the human body, a diagram of the human nervous system, a microscopic image of cells, and a diagram of the human circulatory system. Below the images, there are more entries: 'armour (protective clothing)' with a star icon, defined as 'Modern **body** armour **systems** | In the 1980s the U.S. Army developed the Personnel Armor **System** for Ground Troops (PASGT), which was composed of a newly designed ...', and 'mechanics (physics)' with a star icon.

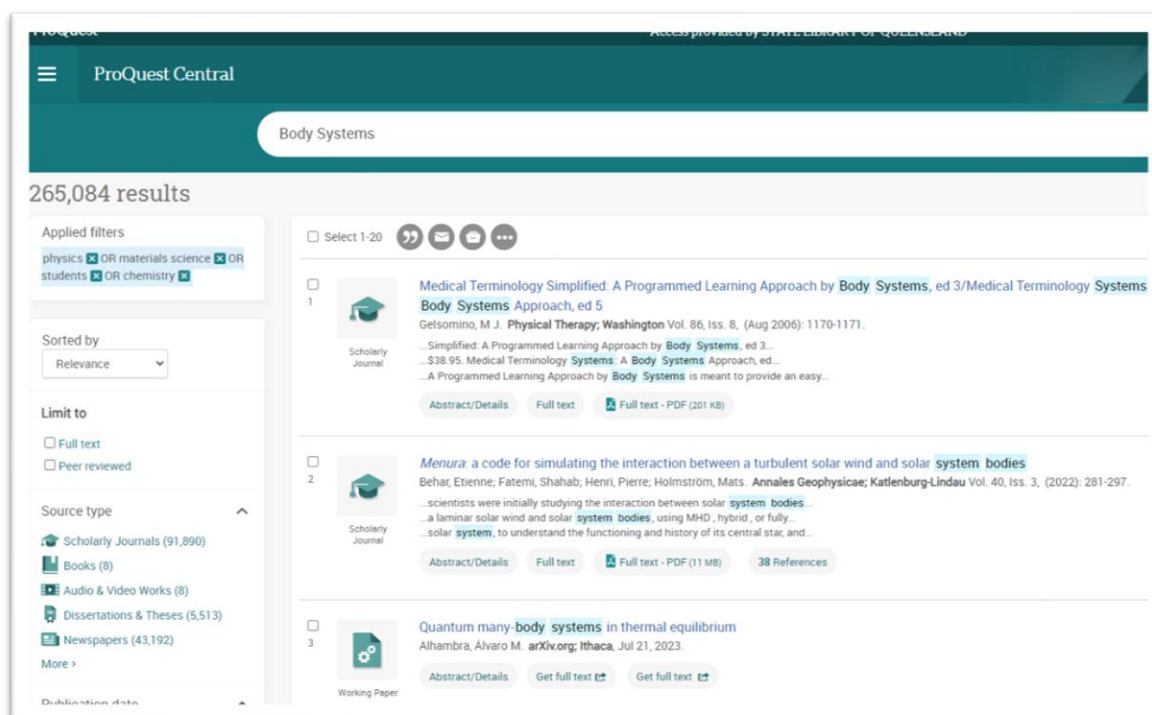
[JSTOR](#) provides access to more than 12 million scholarly journal articles and ebooks, and is especially good for primary sources.



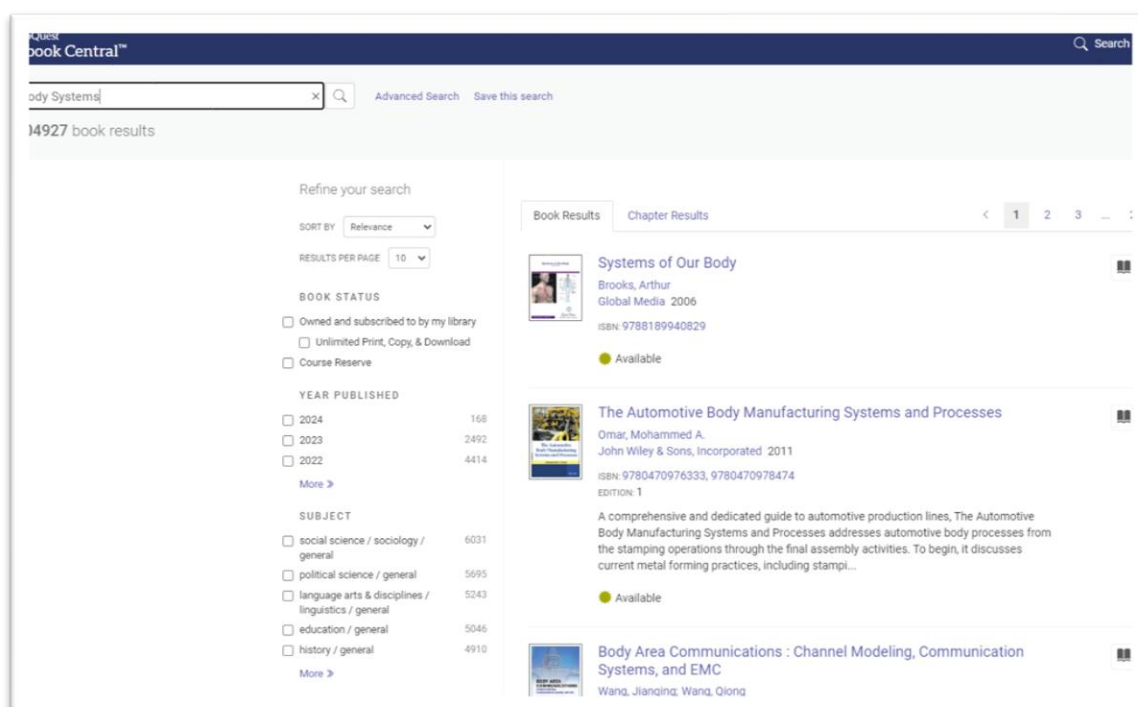
[Gale Interactive: Science](#) provides a comprehensive view of the most-studied science subjects. Authoritative, high-quality digital content is paired with interactive 3D models.



[ProQuest Central](#) brings together 47 databases across 175 subject areas, providing easy intuitive access to an incredibly broad and comprehensive range of content.



[ProQuest Ebook Central](#) Compiles a library of topic specific ebooks for you to access free through your State Library membership.

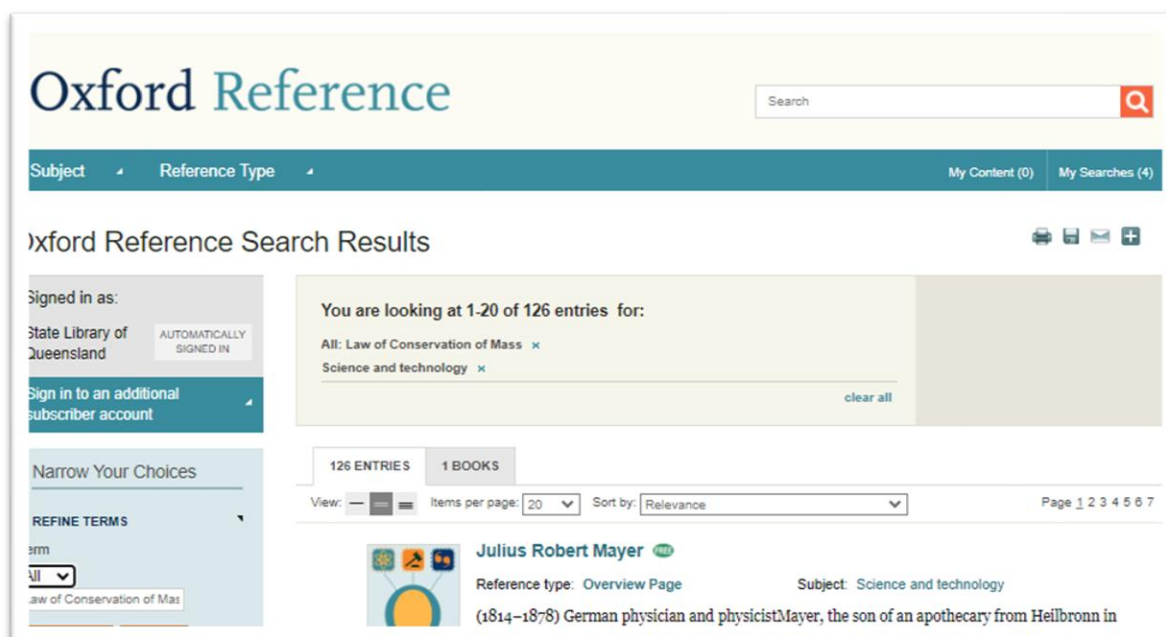


Reproductive Systems

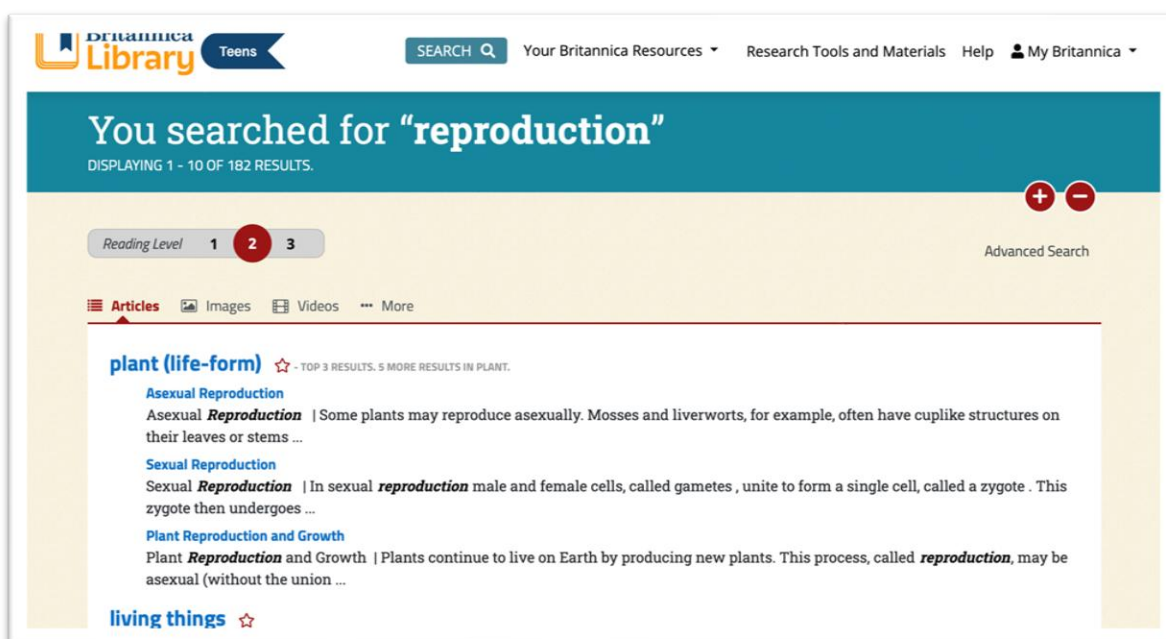
Describe the form and function of reproductive cells and organs in animals and plants, and analyse how the processes of sexual and asexual reproduction enable survival of the species.

- Examining how the male and female reproductive organ structures work collectively as a system.
- Explaining how the forms of male and female gametes relate to their specific function.
- Identifying and comparing sexual and asexual reproductive strategies in plants.
- Exploring how sexual reproduction creates a greater rate of variation among offspring compared with asexual reproduction.
- Examining how the reproductive strategies of multicellular animals are related to their environment and the complexity of the organism.
- Examining how the number of offspring produced by animals is related to the amount of parental care.

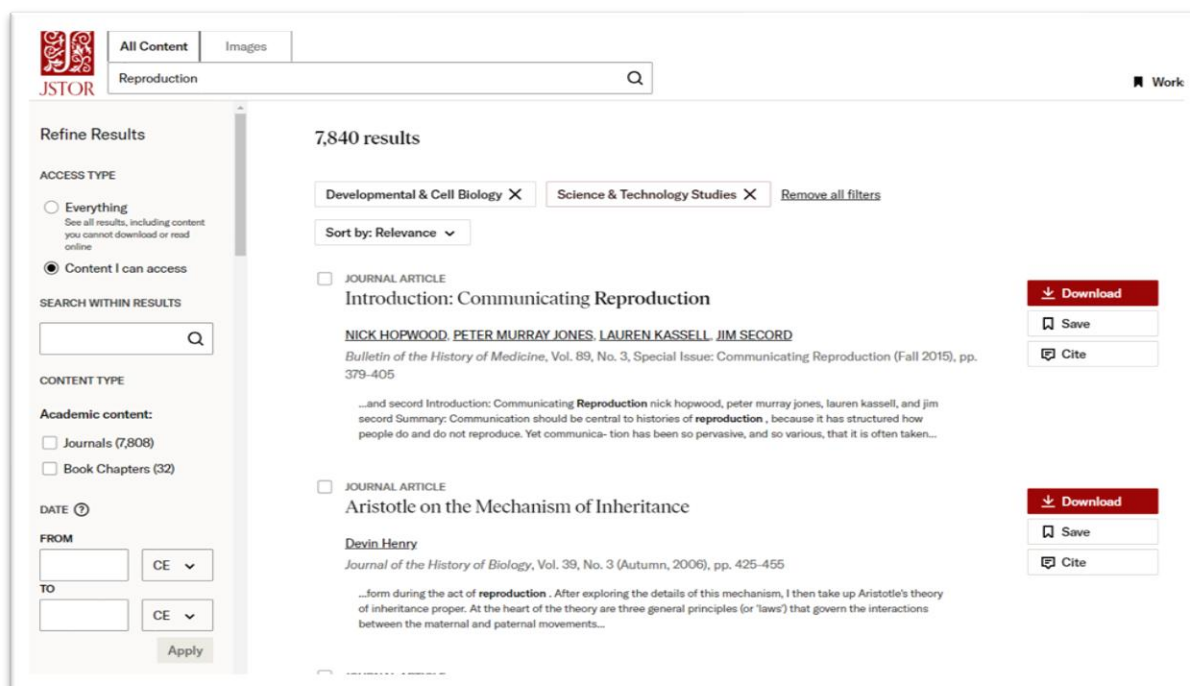
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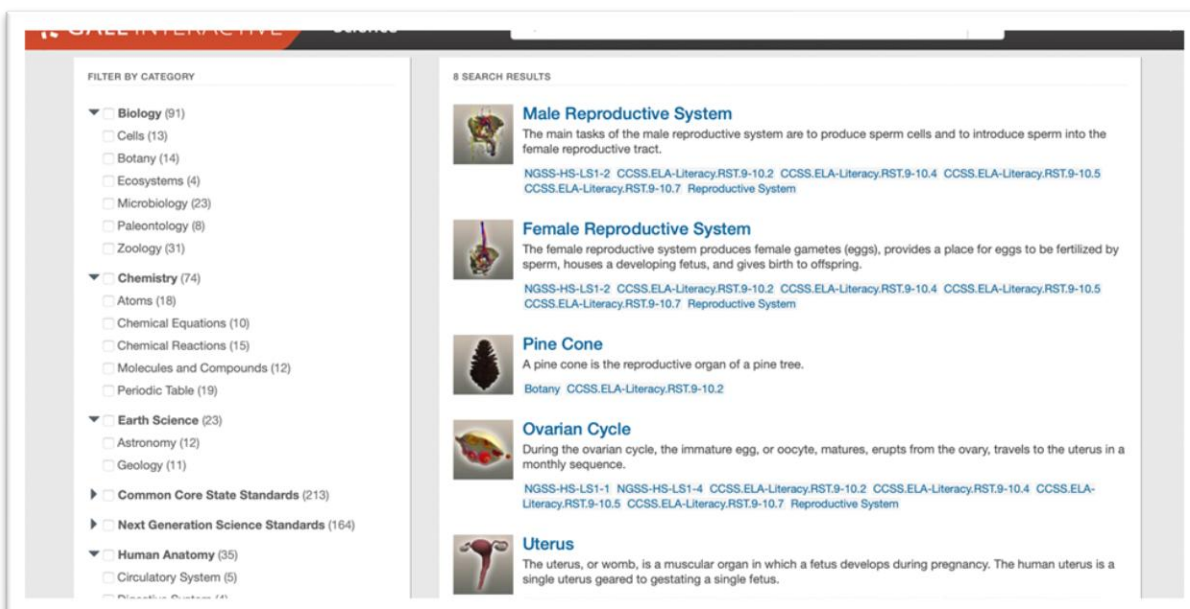
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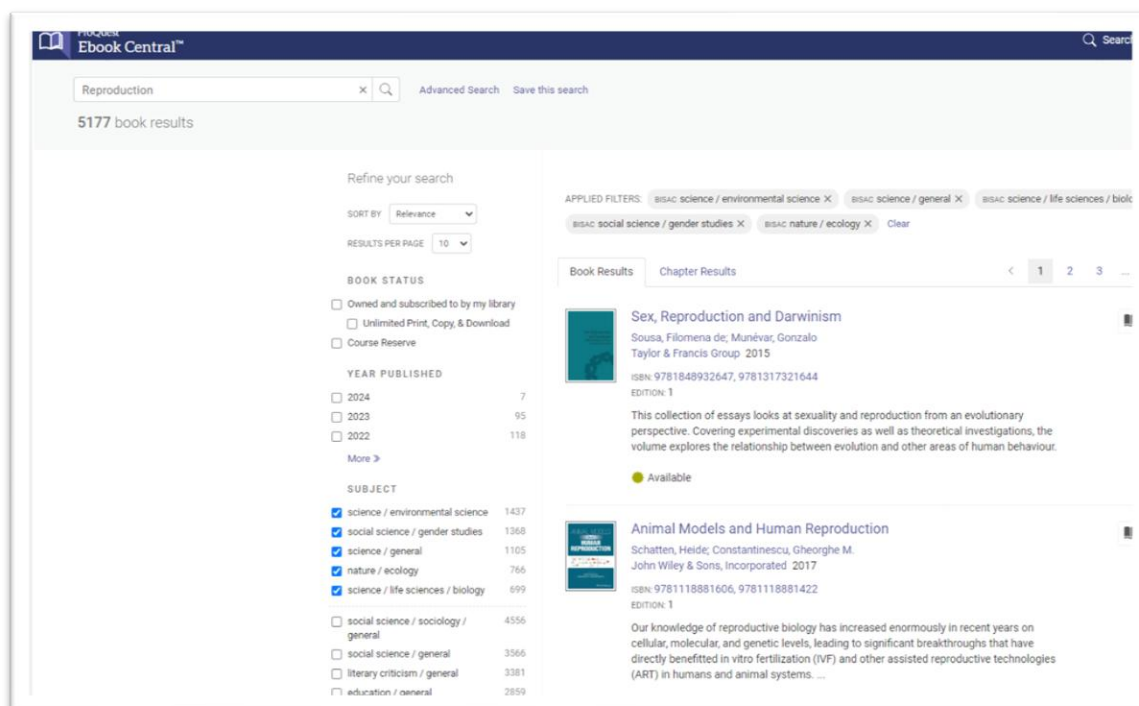
[Gale Health and Wellness](#) provides access to trusted medical reference materials including journals, pamphlets, and health-related videos and articles from over 2,200 publications.

The screenshot shows the Gale Health and Wellness website interface. At the top, there's a search bar with 'reproduction' entered. Below the search bar, there's a navigation menu with 'Browse Topics', 'Search History', 'Get Link', and 'Highlights And N'. The main content area displays '100 Results' for the search term. A table lists various content types: Reference (80), Magazines (5,268), Videos (28), Images (2), Audio (100), News (33,250), and Academic Journals (6,993). Below this, there's a section for 'Full Text Documents' with filters like 'Document Contains Images', 'Consumer Health', 'En Español', and 'Peer-Reviewed Journals'. A 'TOPIC FINDER' section is also visible, encouraging users to discover related topics and results.

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More research

Borrow items

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Ask a librarian

[State Library staff](#) are available to advise on keywords and search strategies and suggest databases to help you carry out independent research.

Please note that librarians can guide and support your research process, but they cannot complete your assessment, select sources for you or provide answers to assessment questions.