

STATE LIBRARY
OF QUEENSLAND

Year 9 Biological Sciences

Unit 1 – Body Systems.

Unit 2 - Reproductive Systems.

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

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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.

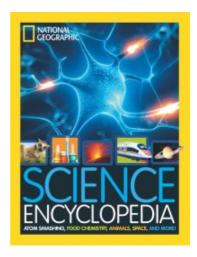
Before you get started

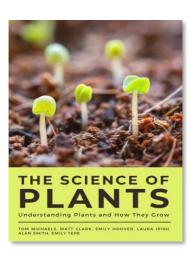
Become a member of State Library of Queensland (it's free!).

Once you have joined State Library, <u>log in</u> 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 <u>OneSearch catalogue</u> or begin exploring by clicking on some of the featured items contained in this research guide.

E-Books

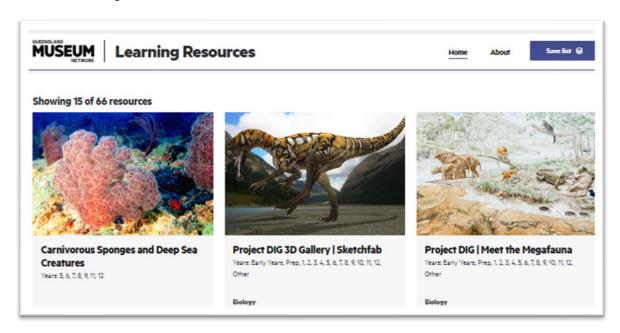




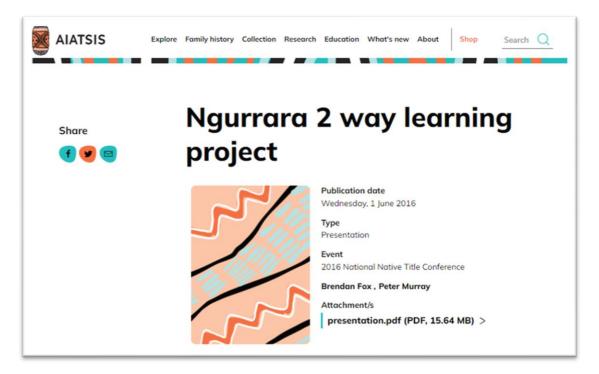




<u>Queensland Museum</u> provide Learning Resources website students with many activities, fact sheets, images, and videos.



The <u>Australian Institute Aboriginal and Torres Strait Islander Studies</u> 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.





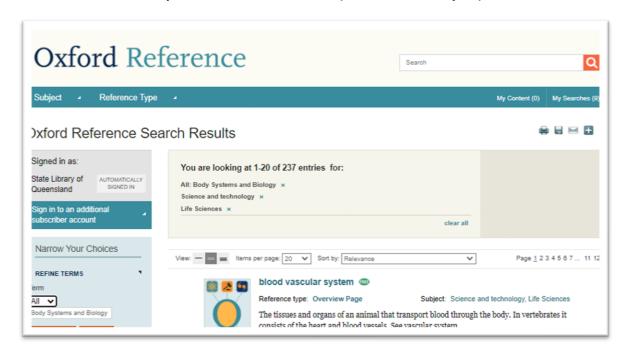
Body Systems

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

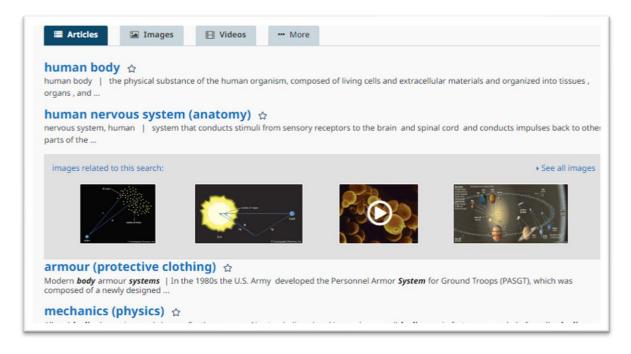
- exploring the body's observable responses to external stimuli (such as changes in light or temperature, or presence of danger or pathogens) or internal stimuli (such as dehydration or hunger).
- using models, flow diagrams and virtual simulations to explore and represent the relationships between body 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 encyclopedias.



The <u>Britannica Library</u> has articles, images and more, with a selection of resources especially for teenagers.

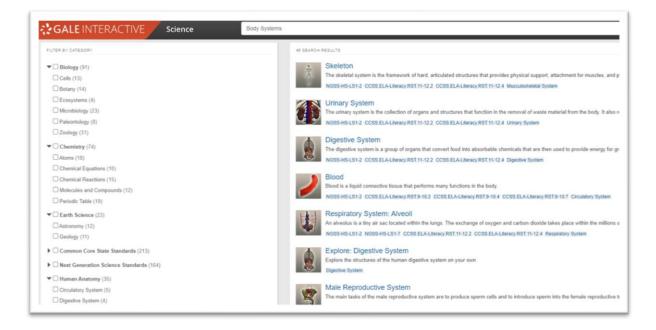




<u>JSTOR</u> provides access to more than 12 million scholarly journal articles and eBooks, and is especially good for primary sources.



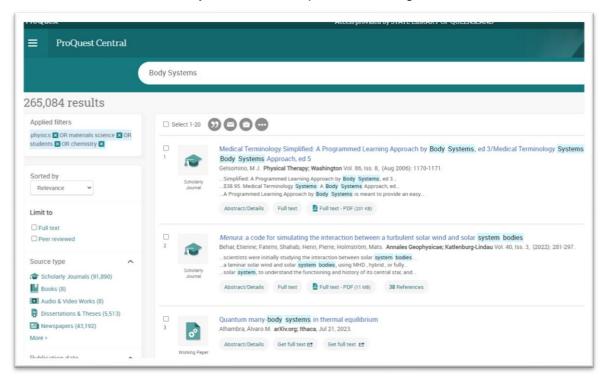
<u>Gale Interactive: Science</u> provides a comprehensive view of the most-studied science subjects. Authoritative, high-quality digital content is paired with interactive 3D models.



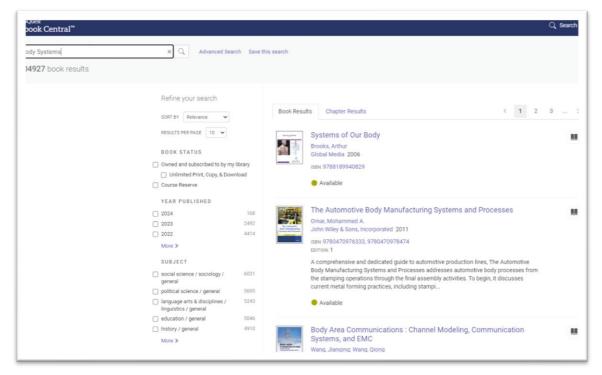




<u>ProQuest Central</u> brings together 47 databases across 175 subject areas, providing easy intuitive access to an incredibly broad and comprehensive range of content.



<u>ProQuest Ebook Central</u> Compiles a library of topic specific ebooks for you to access free through your SLQ membership.







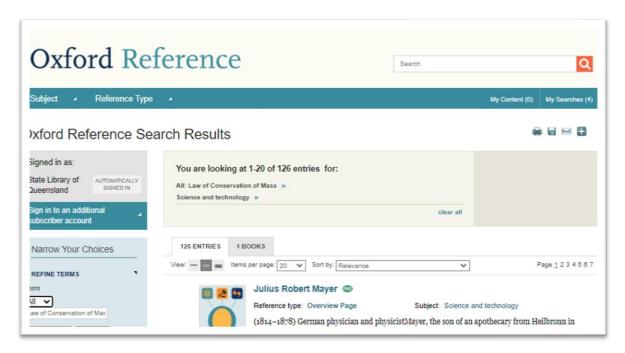
Reproductive Systems

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.

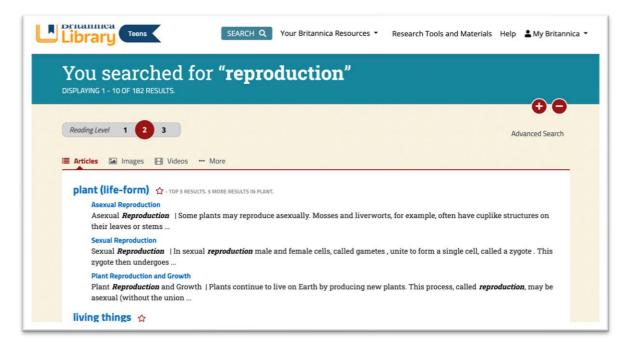
- Examining how the male and female reproductive organ structures work collectively as a system.
- Explaining how the forms of male and female gametes relate to their specific function.
- Identifying and comparing sexual and asexual reproductive strategies in plants.
- Exploring how sexual reproduction 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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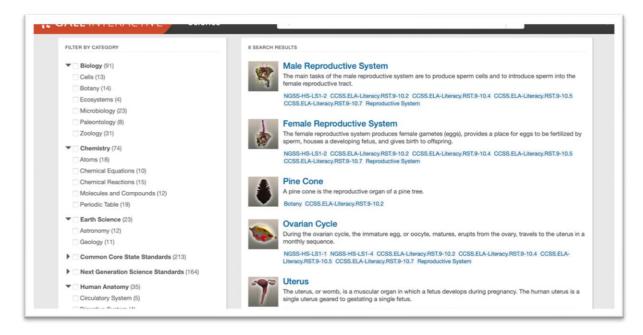




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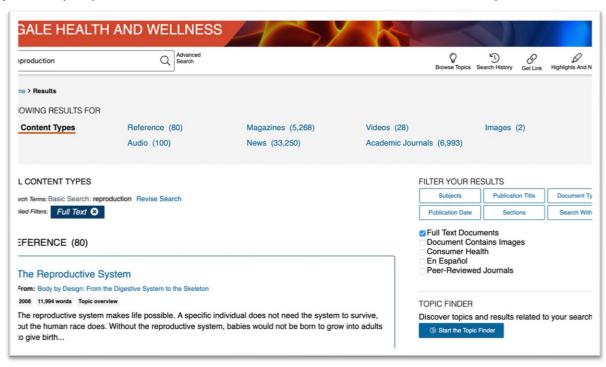


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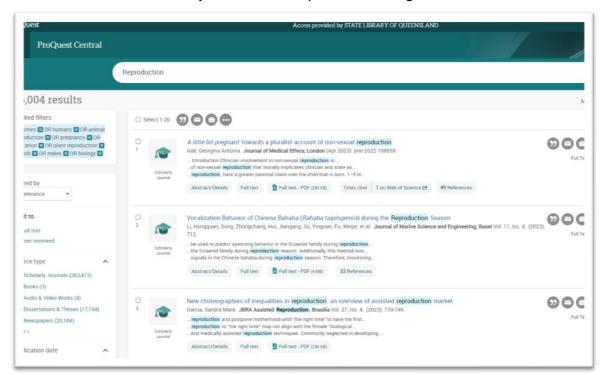




<u>Gale Health and Wellness</u> provides access to trusted medical reference materials including journals, pamphlets, and health-related videos and articles from over 2,200 publications.

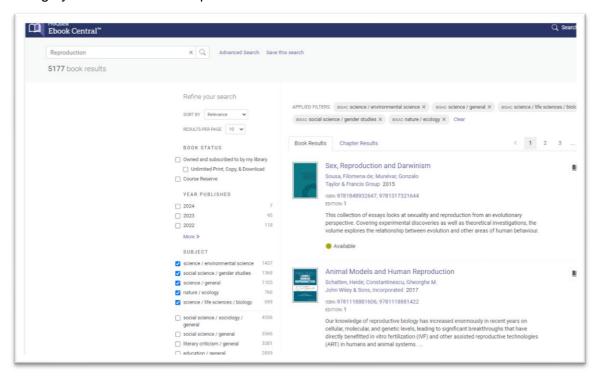


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