QUEENSLAND MUSEUM NETWORK PRESENTS

World Science Festival Brisbane

QUEENSLAND MUSEUM: gateway to STEM professional development day

Session Information

Fantastic Features

https://www.museum.qld.gov.au/learning-resources/learnings/fantastic-features-teacher-resource

To conserve Queensland's natural heritage, Queensland Museum has a responsibility to collect, research and promote our unique and fascinating animals, plants, and habitats. In this workshop, we will:

- Explore mysterious creatures from the oldest book in our collection.
- Investigate how adaptations support the survival of Australian animals in a range of habitats.
- Understand the benefits of camouflage with an exciting investigation.
- Consider a design challenge for a camouflaged camera that can be used to record native wildlife.
- Analyse specialised stinging cells of jellyfish.

Year 5 - Biological Sciences

Living things have structural features and adaptations that help them to survive in their environment (ACSSU043)

Year 6 – Biological Sciences

The growth and survival of living things are affected by physical conditions of their environment (ACSSU094)

Year 8 - Biological Sciences

Cells are the basic units of living things; they have specialised structures and functions (ACSSU149)

Multi-cellular organisms contain systems of organs carrying out specialised functions that enable them to survive and reproduce (ACSSU150)

Activities in this resource also link to:
Years 5-9 SHE and Science Inquiry Skills
Year 5 Physical Sciences
Years 8-9 Biological Sciences
Year 5 Design & Technologies
Year 5 English
Years 5-6 Mathematics
Year 6 Humanities & Social Sciences

General Capabilities: Literacy, ICT & Numeracy
Cross-Curriculum Priorities: Sustainability

More details can be found on the digital resources here.

Problematic Polymers

https://www.museum.qld.gov.au/learning-resources/learnings/problematic-polymers-teacher-resource

It can be difficult to imagine modern life without plastic. Despite its many uses, plastic has been criticised for its detrimental effects on our planet. In this workshop, we will:

- Stimulate curiosity about the impact of litter in our local communities.
- Explore concepts and issues underpinning the question, "Why do we use so much plastic?"
- Investigate gut contents of animals, including ingested plastic.
- Conduct an innovative experiment creating biodegradable and edible water 'bottles' made from brown algae.

Year 6 – Chemical Sciences

Changes to materials can be reversible or irreversible (ACSSU095)

Year 6 - Biological Sciences

The growth and survival of living things are affected by physical conditions of their environment (ACSSU094)

Year 5 – Humanities & Social Sciences

The environmental and human influences on the location and characteristics of a place and the management of spaces within them (ACHASSK113)

Year 6 – Humanities & Social Sciences

The effect that consumer and financial decisions can have on the individual, the broader community and the environment (ACHASSK150)

Cross Curriculum Priorities: Sustainability

Activities in this resource also link to:
Years 6-9 Biological Sciences
Years 5-9 SHE & Science Inquiry Skills
Years 5-10 Design & Technologies
Years 5-7 Mathematics
Years 9-10 Geography

General Capabilities: Literacy, Ethical Understanding & Intercultural Understanding

More details can be found on the digital resources here.

Please note: All curriculum links provided currently refer to V8.4 Australian Curriculum.
We are in the process of updating all resources to V9 and will make them available shortly.