



Professional Development Workshop Series in Earth and Environmental Science

3-PD & Fieldtrip for STEM/Science teachers, CAIRNS

Critical Minerals – Renewable Energy, Rocks-Critical Mineral Stories- Integrated Plate Tectonics (Rock Kit Teaching Pack, Plate Tectonics poster, hands-on exercises) & Our Place in Space

School: Cairns State High School, Sheridan St, Cairns North 4870 **Meeting Room:** sign in at front office to be directed, start of Fieldtrip – meet at Cairns SHS front office, 8:30am

Date: Wed 23 October 2024, 8:30am – 4:00pm – all-day PD event, STEM/EES/primary Science

Fieldtrip - Pioneer Cemetery- headstone rock-type worksheets, Prof Michael Bird (JCU)

Rocks & Critical Mineral Stories & integrated Plate Tectonics story (3D renders, virtuals, integrated teaching) year 4-8, 10:00am-11:15am

Critical Minerals (electric cars/renewable energy/recycling) year 9-12, 11:30-1:15pm

LUNCH break – catered lunch & tea/coffee provided

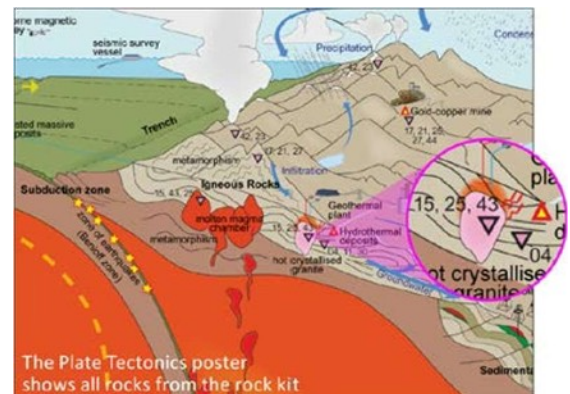
Our Place in Space (Mars-Earth landforms/rock-gas-ice/planetary influences) years 5-7, 2-4pm

Facilitator: Robyn Cowie

The EarthExpo experience includes–

1. **Incursions** – classroom lessons with students and teachers.
2. **PD workshops** – Professional development workshops for teachers (3-PD & fieldtrip @ \$75 per attendee for visiting teachers, FREE to host-school teachers).
3. **ASTA Certificate of attendance** – A certificate of hours and workshop outcomes will be issued.
4. **FREE rock kit** – Host to receive a FREE rock kit and Plate Tectonics poster.
5. **Introductory RocksExpo** feature How to Use the Rock Kit and Teaching Pack
6. **Subsequent RocksExpo** topics can be chosen from TESEP's "The Challenging Earth" series 2
7. **Excursions** – possible trip to local field outcrops (dev a guide for teachers) - on request

Presenter: Phil Gilmore has expertise in geological mapping, the history of the Earth and minerals across Australia.



Please email your completed form to TESEP registration: registration@tesep.org.au

Professional Development Workshop Series in Earth and Environmental Science

Rock Kit & Plate
Tectonics poster
tesep.org.au

Name:
School:
Teaching Area:
Phone (School):
Email:
Home postal address:
Special Dietary and other requirements:

Booking form

Email or fax form to ASTA (office – Josh Fartch). Send the non-refundable* registration fee (includes GST) to Australian Science Teachers Association (ABN 87 902 882 824).

Payment can be made by direct bank transfer or cheque/money order. Please include your name and workshop details with payment (e.g. TESEP PD9 NSW July 20 J. Citizen).

*The fee is transferable to another PD workshop or for another teacher to substitute

Email: office@asta.edu.au	Address: TESEP - ASTA PO Box 334 Deakin West ACT 2600
Account Details: Australian Science Teachers Association (ASTA) BSB: 082 902 Account No: 556 705 700	
Please tick here if you require an invoice <input type="checkbox"/> and provide address if different from the one above:	
A certificate will be issued by ASTA which states the number of PD attendance hours. For registration inquiries contact office@asta.edu.au	
Please Note: Issuing of a certificate is conditional on workshop payment.	

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Registration fee: Free for teachers working at the host school. \$75/fullday attendance for each attendee, (includes lunch), \$35/halfday attendance (does not include lunch) – please note a.m. or p.m. halfday.

PLEASE PRINT CLEARLY

Workshop: Cairns SHS_day1, 3-PD & Fieldtrip: Rocks & Critical Minerals (rock & crit min kits), Critical Minerals, Our Place in Space	Date: Wed 23 Oct 2024
Venue: Cairns State High School	State: Qld

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