



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

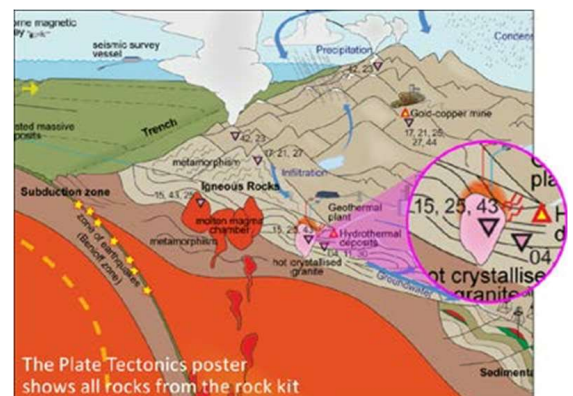
**Our Place in Space** (Mars-Earth landforms/rock-gas-ice/planetary influences) years 5-7, 2-4pm

**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](mailto: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: <b>office@asta.edu.au</b>	Address: TESEP - ASTA PO Box 334 Deakin West ACT 2600
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Account Details: Australian Science Teachers Association (ASTA) BSB: 082 902 Account No: 556 705 700

Please tick here if you require an invoice  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.**

Please email your completed form to TESEP registration: [registration@tesep.org.au](mailto:registration@tesep.org.au)

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

Please email your completed form to TESEP registration: [registration@tesep.org.au](mailto:registration@tesep.org.au)