

Teacher Earth Science Education Programme



Professional Development Workshop Series in STEM / Earth and Environmental Science at Blackheath & Thornburgh College, Charters Towers on Friday 18 October 2024

1.00 to 3.00pm: Riding the Climate Rollercoaster What is climate and how has it changed through time? What role do the atmosphere, the oceans and greenhouse gases play? What tectonic processes change the Earth's climate? Can life radically change the Earth's atmosphere and freeze the globe? Curriculum **topics for years 9 to 12**, **with STEM**, **physics and chemistry crossover**.

3.00 to 5:00pm: Rocks and Critical Minerals. Introduction to the TESEP kits and teaching resources: integrated teaching of rocks/minerals in the plate tectonics and rock cycle context, with rock/mineral stories, 3D renders/virtual teaching. Hands-on activities to describe rocks, rock cycle examples, and their use in society, by First Nations Australians and for the energy transition. **Curriculum topics for years 5 to 9.**

Location: Blackheath & Thornburgh College , King St, Richmond Hill, Charters Towers Qld	Meeting room : Attendees to attendees to go to the front desk to be directed to Meeting Room
Date: Friday 18 October 2024	Time: 1.00pm to 5pm
School Facilitators: Jacqui Street	Refreshments: Afternoon tea/light supper provided
Presenter: Phil Gilmore is a TESEP regional coordinator, and a geoscientist with over 25 years of experience and expertise in geological mapping and geodynamics, mineral systems and exploration, outreach and geotourism.	

The TESEP RocksExpo experience includes:

- PD workshops: after-school professional development workshops for teachers.
- Certificate of attendance: a certificate of hours and workshop outcomes will be issued.
- FREE rock kit: host school to receive a FREE rock kit and Plate Tectonics poster.
- Rock and Critical Mineral Kit Teaching Packs: how to relate rock kit rocks to rock stories, 3D rendered samples, virtual thin sections and virtual outcrops).

- Rock checks of school collections: to check labelling and suitability of existing school collections.
- 6. **Incursions:** classroom lessons with students and teachers.





TEACHER EARTH SCIENCE EDUCATION PROGRAMME

Professional Development

Unique teaching materials

* Curriculum resources portal *

See www.tesep.org.au for more information.



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To register for a workshop:

- 1. Please complete the following form and email to: office@asta.edu.au
- 2. You will be issued with an invoice by ASTA for payment by direct bank transfer or credit card.

WORKSHOP DETAILS

Two x Professional Development Workshops at Blackheath & Thornburgh on Friday 18/10/2024, 1.00pm to 5pm.

- Riding the Climate Rollercoaster
- Rocks/rock kit-critical mineral kit/plate tectonics integrated story

Please select from the options below:

I work at the host school or another sponsored school (no cost).

I work at another school (\$50 per attendee).

I would like to apply for half-day Casual Relief of \$220 (excl. GST). 4 available, 1 per school, on application. (School to invoice TESEP, once relief funding approved by TESEP).

YOUR DETAILS	
Name:	School:
Teaching area:	Phone (school):
	Phone (mobile):
Email:	
Postal address (for certificate):	
Dietary or other requirements:	
PAYMENT DETAILS	

The registration fee for each workshop / field trip is non-refundable – though the fee is transferable to another PD workshop or for another teacher to substitute. The fee is GST inclusive.

An invoice will be emailed to you by the ASTA (Australian Science Teachers Association, ABN 87 902 882 824). The invoice includes details for payment by direct bank transfer or by credit card. Contact ASTA if any queries: office@asta.edu.au



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CERTIFICATE OF PARTICIPATION

A certificate will be issued by ASTA which states the number of PD attendance hours. Please note that issuing of a certificate is conditional on workshop pay reacher Earth Science



Education, Purogrammetion!





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