

Teacher Earth Science Education Programme



Professional Development Workshop Series in Earth and Environmental Sciences

TESEP PRESENTS: Field Trip

TESEP Teacher Field Trip – Canberra Geological Sites

Date: Tuesday 10th December 2019

Time: 8.15am to 4pm

Venue: Meet at Geoscience Australia (Education Centre), Symonston ACT. The group will then travel to various sites around Canberra

Presenter: Greg McNamara – an experienced geologist and science teacher and also TESEP Executive Officer, editor of the Australian Geoscience Council's GeoEdLink e-newsletter, and Education and Outreach Consultant to the Geological Society of Australia.

Programme:

This field trip will take teachers to a variety of sites in Canberra that can be used for short excursions. Teachers will learn about the geological features of each site and undertake a task that could be used by students. The activities will be targeted towards Year 11 and 12 students, although teachers of Years 7-10 may also find it valuable.

Links to the Australian Curriculum:

There are many links, some of which are listed below

Science Curriculum 7-10, Science Understanding:

8: Sedimentary, igneous and metamorphic rocks contain minerals and are formed by processes that occur within Earth over a variety of timescales (ACSSU153)

Geography Curriculum 7-10: Geographical Knowledge and Understanding:

8: Geomorphic processes that produce landforms, including a case study of at least one landform (ACHGK050)

Senior Earth and Environmental Science, Science Understanding:

Unit 1: Rocks are composed of characteristic assemblages of mineral crystals or grains that are formed through igneous, sedimentary and metamorphic processes, as part of the rock cycle (ACSES019)

Senior Earth and Environmental Science, Science Inquiry Skills:

Unit 1: Conduct investigations, including using map and field location techniques and rock and soil sampling and identification procedures, safely, competently and methodically for the collection of valid and reliable data (ACSES003)

Unit 1: Select, construct and use appropriate representations, including maps and cross sections to describe and analyse spatial relationships, and stratigraphy and isotopic half-life data to infer the age of rocks and fossils, to communicate conceptual understanding, solve problems and make predictions (ACSES006)

Australian Professional Standards for Teachers:

6.2.2 Participate in learning to update knowledge and practice, targeted to professional needs and school and/or system priorities

7.4.2 Participate in professional and community networks and forums to broaden knowledge and improve practice

FOR ACT Teachers:

This workshop can be counted towards Teacher Identified hours for TQI accreditation.

A certificate will be issued by ASTA that states the number of attendance hours.

Teachers will receive all posters, CDs, DVDs etc. free of charge [after paying the \$55 registration fee] BUT only if they attend the PDs. They also receive an ASTA Certificate of Attendance that they can use for proof of PD if needed.

What TESEP offers teachers and laboratory technicians

- Limited CRT is available on request (contact the TESEP coordinator)
- PD hours will be noted on a certificate of attendance issued by ASTA
- run-through the topic, with experiments, demonstrations and activities
- lunch, morning and afternoon tea
- DVD, posters and class exercise material from the PD
- talks with industry geologists and half-day field trips
- two nights accommodation for a three-day combined PD workshops (conditions apply)
- one nights accommodation for a two-day individual PD workshop (conditions apply)
- travel supported by \$100 petrol allowance (conditions apply)
- access to trained presenters and geology professionals
- introduction to and guidance in Earth and Environmental Sciences

See tesep.org.au for topics in this series:

*Riding the Climate
Roller Coaster
Round and Round with
Rocks
Our Place in Space
Fossil Sunlight
Powerful Stuff
Greening Coal
Wet Rocks
Hot Rocks
Plate Tectonics*

A non-refundable* \$55 registration fee applies.

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

Approval by your school principal, prior to registration is recommended.

Register through registration@tesep.org.au or for further details contact the TESEP ACT Coordinator Rebecca Cashmere – ACT_coord@tesep.org.au

tesep.org.au
asta.edu.au
pesa.com.au

Workshops are cancelled 5 working days prior if insufficient registrations are received. Late registrations may be accepted if the workshop is running. Always contact us and ask!