

Teacher Earth Science Education Programme



Professional Development Workshop Series in Earth and Environmental Sciences

TESEP PRESENTS: Professional Development WORKSHOP 1

PD1 Round and Round with Rocks (The Basics, also suitable for Lab Techs)

Date: Monday 9th December 2019

Time: 9am to 4pm

Venue: Geoscience Australia (Education Centre), Symonston ACT

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

Programme:

This workshop is targeted at science teachers who do not have a background in geology.

It will examine the rock cycle and the formation of different rock types and places it in the context of plate tectonics, geological time and dynamic earth processes, including climate change. Exploration of minerals, ores and mining are put in context.

At the completion of this workshop teachers will be equipped with the background information and resources, including some practical activities, to assist them with teaching the requirements of the Australian Curriculum: Science, particularly at the Year 8 level.

Links to the Australian Curriculum:

There are many links, some of which are listed below

Science Curriculum K-10, Science Understanding:

Earth and space science

- 4: Earth's surface changes over time as a result of natural processes and human activity (ACSSU075)
- 8: Sedimentary, igneous and metamorphic rocks contain minerals and are formed by processes that occur within Earth over a variety of timescales (ACSSU153)
- 9: The theory of plate tectonics explains global patterns of geological activity and continental movement (ACSSU180)

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)

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!