

AusEarthEd offers free virtual incursions for every school in Western Australia.

Engaging your students with Earth and Space Science content is simple just:

1. Book a time with one of our Education Officers by completing our [online form](#) (bookings are only confirmed when we contact you)
2. Collect the equipment required
3. Take part in a Teams teleconference test
4. Set your class up on the day and join in

All incursions require a laptop/computer capable of joining a Microsoft Teams meeting attached to a projector/smartboard and speakers.

The following incursions are now available:

Students learn more about resources and what makes them renewable (or non-renewable). They explore the formation of non-renewable resources (oil and gas) by answering quiz questions based on content led by our presenter. They explore the concept of reservoir rocks further by engaging in a tasty experiment.			
Year group	Activity Name	Equipment Needed	Time required
7	Renewable and non-renewable resources	<ul style="list-style-type: none"> • Per student <ul style="list-style-type: none"> ○ 1 small cup (sample or shot glass size is perfect) ○ Enough chocolate milk to fill the cup ○ 1 square of paper towel ○ 1 chocolate finger biscuit (or a Tim Tam) ○ 1 square of Aero chocolate • Equipment to facilitate participation in a quiz <ul style="list-style-type: none"> ○ Device (Kahoot can be used) OR ○ Mini whiteboard and marker OR ○ Pen and paper • Equipment to write with (mini whiteboards or pen + paper) 	45- 60 minutes

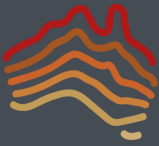
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In this activity students use chocolate to represent stages of the rock cycle, from weathering to lithification, metamorphism and finally melting and cooling. Students will end up creating a wide variety of chocolate rocks, depending on the ratios of the different types of chocolate they start with. This enables the discussion about composition of rocks and rock types.

Year group	Activity Name	Equipment Needed	Time required
8	Chocolate rock cycle	<ul style="list-style-type: none">• Access to fridge/ freezer• One large container at the front of the class which will need to be filled with hot water• 3 x ice cream tubs with squares of different coloured chocolates already broken up into it (see below for amounts per student)• 3 x kitchen tongs• Some extra chocolate as a prize for the winner of the game at the end• Per student<ul style="list-style-type: none">○ Paper towel○ Piece of cling film (about A3 size)○ 3 squares of chocolate (there should be 3 types to choose from, dark, milk and white, students will be able to decide the proportion of each)○ Butter knife (plastic is fine)	45- 60 minutes



Mars Bar Earth: In this activity students use a mini Mars Bar as a model for the layers of the Earth and manipulate it to mimic movement of the crust. This lesson is suitable for Year 9 students as an introduction to the topic or for both Year 9 and Year 12 students, as revision of concepts already covered.

Volcanoes: Volcanoes are fascinating landscape features from an earth science point of view. In this activity students are introduced to the two major types of volcanoes and the features of each are highlighted through experimentation and demonstration.

Year group	Activity Name	Equipment Needed	Time required
9	Mars Bar Earth and Volcanoes	<ul style="list-style-type: none">• Per student<ul style="list-style-type: none">○ Paper towel○ Mini Mars Bar• Per group (3 – 4 students)<ul style="list-style-type: none">○ 2 x plastic cup○ Straws○ Plasticine (about golf ball size)○ Tomato sauce (about 30mL) <p>For teacher demonstration: 2 x large beakers, vegetable oil, food colouring, 2 x effervescent tablets (Aspro Clear)</p>	45-60 minutes



Increased carbon dioxide output from human activities, like the burning of fossil fuels, means that our largest carbon sink, our oceans, are having to work harder to absorb more carbon from the atmosphere. With rising ocean temperatures what effect will that have on their ability to absorb carbon from the atmosphere? This activity will allow students to investigate through experimentation.

Year group	Activity Name	Equipment Needed	Time required
10	Warming Oceans	<ul style="list-style-type: none">• Hot water source(s)• Per group (3-4 students)<ul style="list-style-type: none">• 1 x 250 mL measuring cylinder• 3 – 4 Aspro clear tablets• ice-cream tub (or similar)• piece of cardboard• thermometer• pen and paper• whiteboard marker• instruction handout (staff will email in advance)	45 – 60 minutes