

How the Earth works - new views of an old planet 11-week Zoom based learning course for adults

KEY INFORMATION

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| COURSE TITLE: | How the Earth works - a comprehensive look at the inner workings of our planet |
| LEVEL: | The course is designed for anyone interested in learning about how the Earth works. Some basic knowledge of geology would be helpful, though not essential |
| DATES: | The course runs for 11-weeks from January 13 - March 31, half term February 24. |
| DELIVERY: | The course will be delivered via a series of live Zoom meetings on Thursdays at 2pm and 7pm (your choice), plus unlimited access to Moodle, our online learning site |
| COURSE TUTORS: | Chris Darmon & Colin Schofield |
| CONTACT: | email: downtoearth@geosupplies.co.uk or tel. 0114 2455746 |

WELCOME TO THE LEARNING ZONE

We welcome everyone to our **Down to Earth learning zone**, whether this is your first time, or you are a regular! You'll be joining a community of learners across the UK who will come together on a weekly basis in Autumn and Winter to discover more about our fascinating subject. We provide a relaxed learning environment in which we can all learn both from the tutor and each other. We'll be providing weekly materials that will lead you to find out more, doing your own bit of research on the internet, or even searching your own memory and sharing what you find with others. Weekly live Zoom meeting on Mondays at 2 or 7pm are the heart of this learning experience.

Chris Darmon has had extensive field experience in the UK and abroad over a 45-year career and has taught adults in Sheffield for more than 30 years; for the LEA, the University of Sheffield and the Workers' Education Association. For the past nine years he has had experience of delivering distance learning courses to learners around the country. Colin Schofield has worked with Chris during all of the time he's been delivering distance learning. Colin not only handles the technical side of Zoom and the administration, he's also an integral part of the learning experience. He adds in much of the learning materials to the Zoom sessions as well as being your first point of contact.

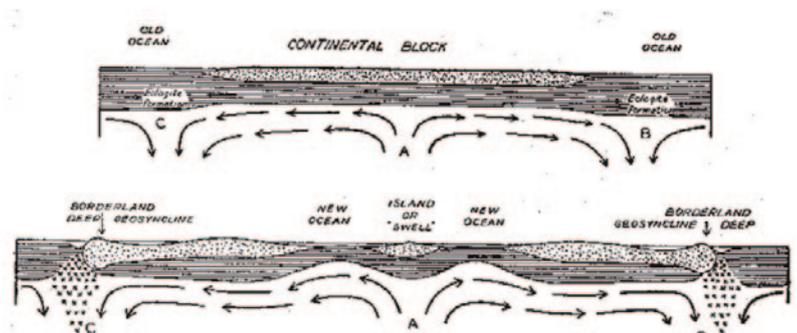
To protect our materials, we must ask you to agree not to share them with anyone not enrolled on the course by any means, including email. This is a condition of you enrolling on this course.

WELCOME TO THIS COURSE

We continue to see widespread volcanic eruptions and earthquakes affecting many parts of the Earth, But why, after 4.6 billion years of Earth history does this still happen? In short, how does the Earth work? This course will try to get at some of the answers to these and many other questions. We'll be looking at earth materials, the minerals and the rocks and outlining some of the key facts about geological time and how Earth processes act. By the end of the course you should be much more familiar with the workings of planet Earth and maybe a little less surprised when something dramatic happens!

COURSE AIMS

- To examine how our view of the Earth has changed over the past 200 years or so
- To understand something of Earth chemistry and how this is reflected in minerals and rocks.
- To appreciate the enormity of geological time and how it is divided up.
- To understand how the theory of plate tectonics explains much about how our planet works.
- To appreciate that scientific hypothesis may not ultimately be scientific fact.



COURSE OUTLINE & TIMETABLE

- Jan 13** **In the beginning** - laying the foundations for studying the Earth
- Jan 20** **The Earth's physics & chemistry** - discover how a vast array of minerals can be formed from just a handful of elements; the internal structure of the Earth, heat flow, gravity, magnetism and earthquakes
- Jan 27** **All the time in the world** - from early ideas about time to the latest techniques for dating events in the past
- Feb 3** **Discovering patterns on the Earth's surface** - early ideas about continents and how they are formed
- Feb 10** **Preparing for the revolution** - steps along the way
- Feb 17** **Towards the plate tectonics revolution** - the journey to a whole new way of looking at our mobile Earth
- Feb 24** **HALF TERM**

Mar 3 It's all about **granite and basalt** - continents v oceans

Mar 10 **Plate margins 1** - where new material is added

Mar 17 **Plate margins 2** - where old material is discarded

Mar 24 **All shook up** - plate tectonics over time

Mar 31 **But there are still unanswered questions** - from mantle plumes to convection cells, there's still plenty to argue about

PRACTICAL POINTS

- To take part in this course, you'll need a computer, iphone or tablet with access to the internet. You'll also need a valid email address - please supply this at the time of enrolment.
- Additional background material will be available as pdf files, or can be supplied in printed form by mail. A broadband connection would be very helpful, but is not essential.
- To access Moodle, Colin will give you some simple instructions and a password.
- To take part in the live Zoom presentations, you'll obviously need a camera and microphone.
- Shortly before the course begins you'll be sent the Zoom login and password which will be constant throughout the course.

THE COST

The cost of this course is £50.00 per person (or £70.00 for two people studying together). If you would like to have the background materials printed and mailed to you, this is an extra £20.00.

ADDITIONAL MATERIALS

The following materials are recommended to accompany the course:-

"How the Earth works" £24.99

"Introducing Tectonics, Rock Structures & Mountain Belts" £16.00

All prices include UK postage.

ENROLLING

To enrol on this course you can do so via our website:-

www.geosupplies.co.uk

or you can ring us on 0114 2455746

You can also send a cheque to the following address
(made payable to "Geo Supplies Ltd"):-

**Geo Supplies Ltd., 49 Station Road, Chapeltown,
Sheffield, S35 2XE**

LOOKING FOR HELP?

If you have any queries, please don't hesitate to contact the tutor, Chris Darmon by email:-

downtoearth@geosupplies.co.uk

or you can call: 0114 245 5746

If you have any questions or queries - contact Chris Darmon as follows:-

Email: downtoearth@geosupplies.co.uk • Tel: 0114 245 5746 • FAX: 0114 240 3405

Enrol online at: www.geosupplies.co.uk or ring us as above