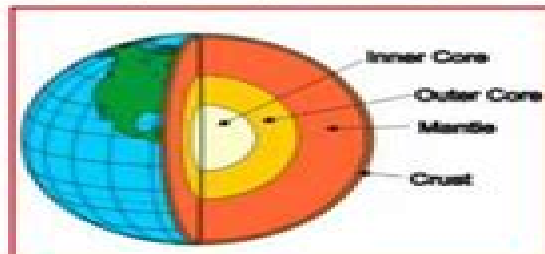


AQA A Revision Guide – The Restless Earth

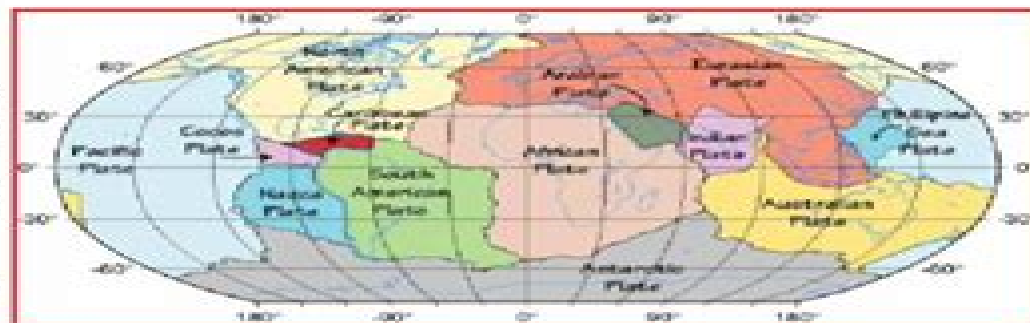
1. Why do we get volcanoes and earthquakes?



It is all to do with **PLATE TECTONICS**. This is a relatively new theory (only really been around for 100 years and been universally accepted for the last 40-50 years) and it looks at the structure of the Earth and examines how vast areas of rock or **PLATES** can move. To understand this theory you need to have an idea of the structure of the Earth. The diagram on the right shows this. The crust floats on the semi-molten rocks of the Mantle. The high temperatures in the Mantle result in convection currents that enable the crust to move.

2. Is the Crust just one piece?

NO! It is split up into a series of **PLATES** which fit together like a giant jigsaw. The map on the left shows this—note the underlying land masses in blue. You can see that we are on the Eurasian plate!



3. Are all these plates made of the same material?

No! Some are made of *continental* crust and some are made of *oceanic* crust. It is important to understand this as this will help you understand what happens at the different plate boundaries. This table summarises the differences:

Data / Type	Oceanic crust	Continental crust
Crust depth	shallow , 5 - 12 km	deeper , average 40km, 75km beneath young mountain range
Age	Young rocks, less than 200 Million years old	Older, generally over 1500 Million years
Density	$3.0 \times 10^3 \text{ Kg m}^{-3}$ DENSE!	$2.6 \times 10^3 \text{ Kg m}^{-3}$ NOT AS DENSE AS OCEANIC CRUST!
Rock type, geology	Mainly basalt	Range of granites with thin covering of sedimentary rocks

4. So what happens when the plates meet?

It depends! As I have already said it is determined by the type of crust involved, but also in terms of the direction in which the plates are moving. The different types of plate boundary are discussed on the next page.

TIP: AT THIS POINT GO TO THE 's-cool' SITE <http://s-cool.co.uk/gcse/geography/tectonics/plate-boundaries.html>

Restless Earth A Beginners Guide To Plate Tectonics

Wolfgang Guggemos



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