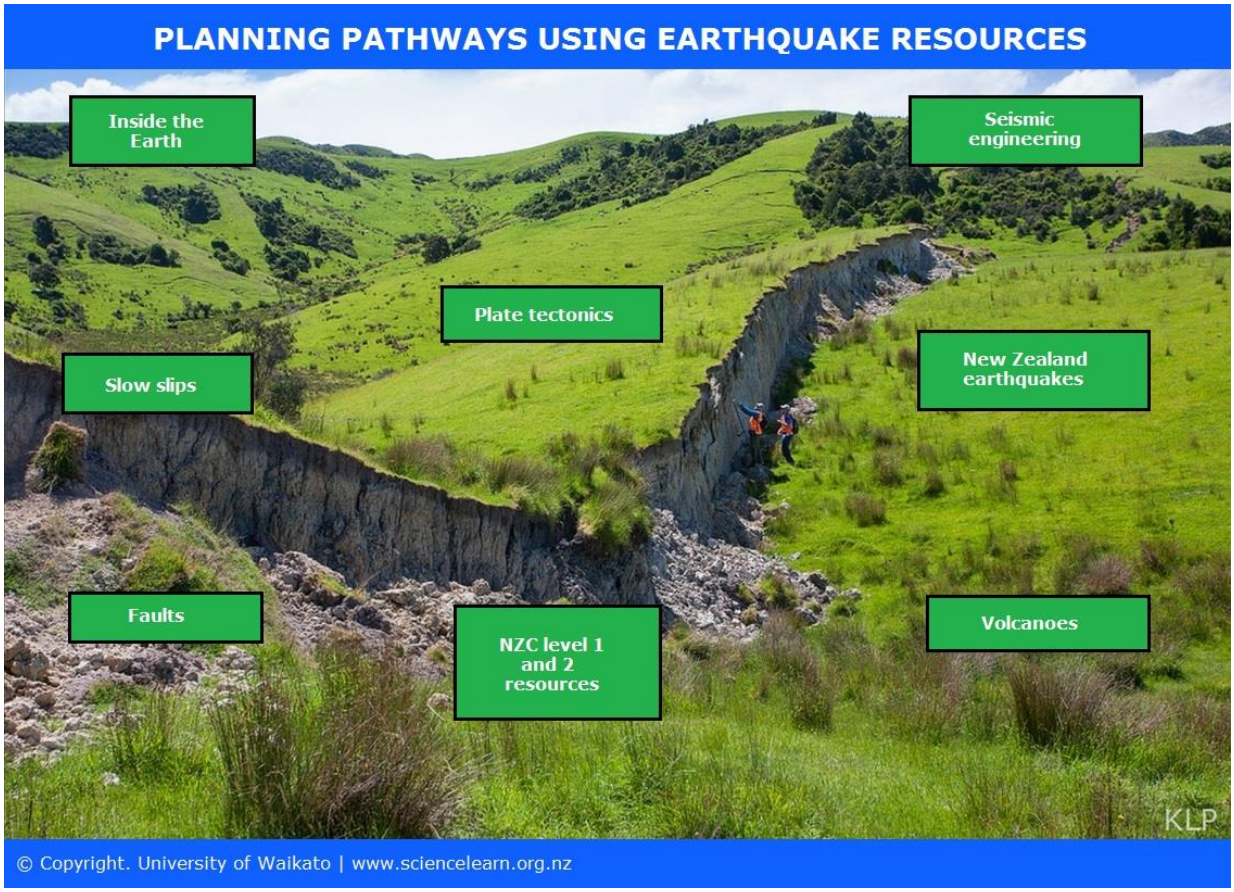
Planning pathways using earthquake resources

This interactive groups Hub resources into key science and teaching concepts. The article Earthquake resources – planning pathways provides pedagogical advice and links to the New Zealand Curriculum.



This interactive diagram provides a selection of pathways that allow for differing approaches and starting points using our earthquakes resources. The aim is to assist educators with their planning of lessons and units of work by providing options that cover multiple science concepts. If using the online version, click on the labels for links to supporting articles, media, data and student materials.

Background image: Dr Katherine Pedley

Transcript index

Transcript

Inside the Earth

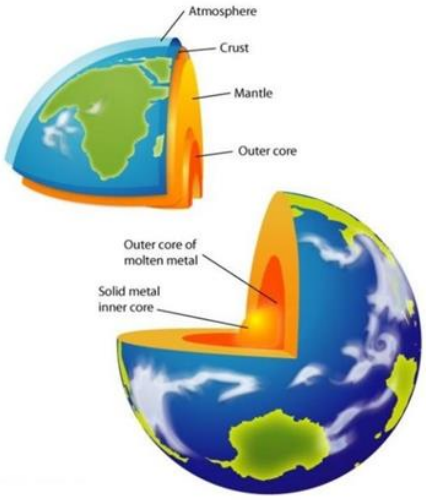
The Earth is divided into layers.

Related articles

- Inside the Earth
- Moulding the Earth
- Magma on the move
- Magma formation

Related activities

- World of quakes
- Plates and quakes
- New Zealand plate boundary models



University of Waikato

Seismic engineering

Seismic engineers develop new techniques and new materials to help buildings withstand earthquakes.

Related articles

- Seismic engineering
- Strengthening Parliament House
- How do base isolators work?
- Dr Bill Robinson

Related activity

- Best base isolator

Robinson Seismic Limited

Plate tectonics

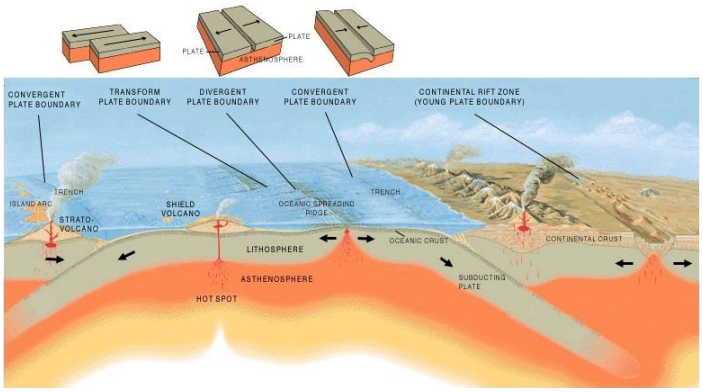
The Earth's crust is made up of many plates that slide past each other causing friction and heat.

Related articles

- Plate tectonics
- Plate tectonics, volcanoes and earthquakes

Related activity

- Tectonic jigsaw puzzles



US Geological Survey (USGS)

Slow slips

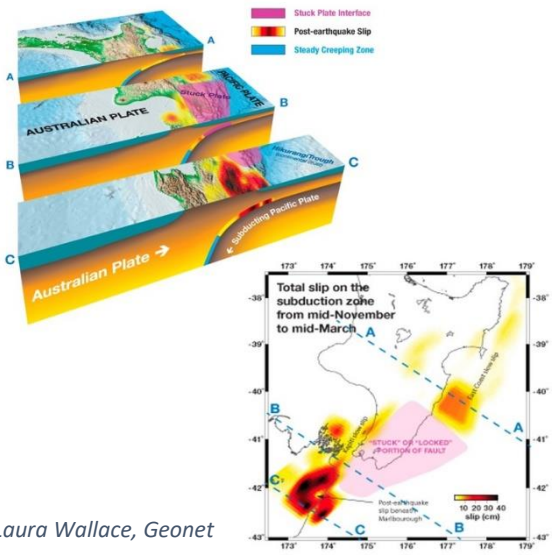
Large areas of New Zealand are silently and slowly moving due to slow slip events.

Related articles:

- What are slow slips?
- Dr Laura Wallace

Related activity:

- Something creepy is happening



Laura Wallace, Geonet

New Zealand earthquakes

Scientists record around 15,000 earthquakes in New Zealand every year. There are some big quakes that have become part of our history.

Related articles

- Canterbury earthquakes
- Liquefaction
- Kaikōura earthquake
- Investigating earthquakes – introduction

Related activities

- Shaky New Zealand
- Earthquakes past and future
- Earthquake location

Dr Katherine Pedley

Faults

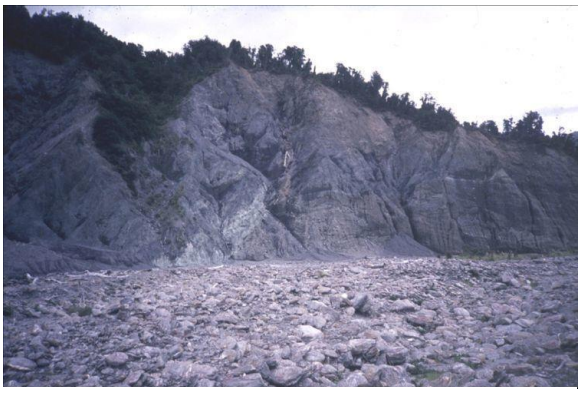
A fault is a fracture in the Earth's crust where the rock mass on either side has been displaced. Earthquakes occur on active fault lines.

Related articles

- Faults
- The Alpine Fault
- Squishy rocks and earthquakes

Related media

- Why study the Alpine Fault?
- From mountains to microscopes



Dave Prior

Related activities

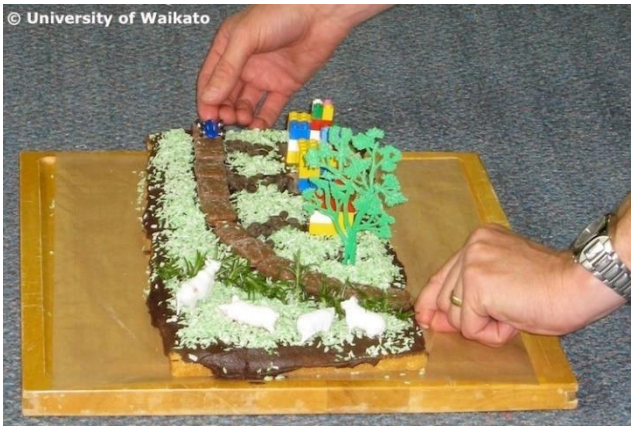
- New Zealand plate boundary models
- Earthquakes past and future

NZC level 1 and 2 earthquake resources

These resources offer an introduction to the science behind earthquakes.

Related articles

- Earthquakes and volcanoes
- Under the Earth's surface
- The moving Earth
- Shaky scientists and engineers



Related media

- Tectonic plates, volcanoes and earthquakes

Related activities

- Models of the Earth
- Tectonic jigsaw puzzles
- Tectonic sandwiches
- Earthquakes – unit plan

Volcanoes

The interactive Planning pathways using volcanoes resources groups Hub volcanoes resources into key science concepts and topics.