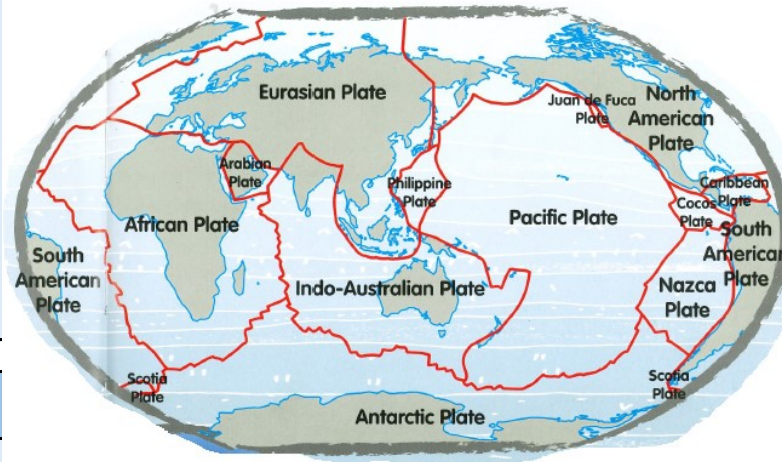


HOW DO TECTONIC PLATES AFFECT THE LANDSCAPE?



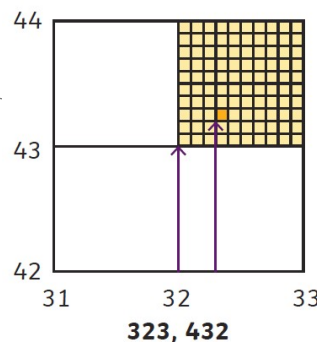
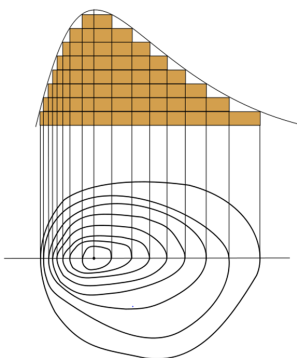
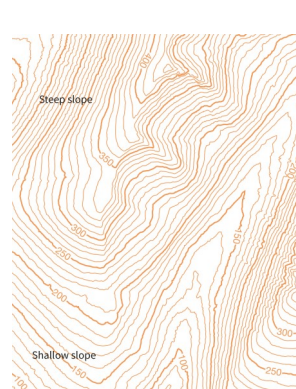
Volcanoes and earthquakes

- The Earth is made up of layers: crust, mantle, outer core and inner core.
- The Earth's crust is made up of pieces that overlap, called **tectonic** plates.
- Plate movement can cause earthquakes and form volcanoes.
- Why do people live near volcanoes?
 - * fertile soil supports agriculture
 - * geothermal energy
 - * minerals
 - * tourism—jobs
 - * settlements have grown—difficult to move

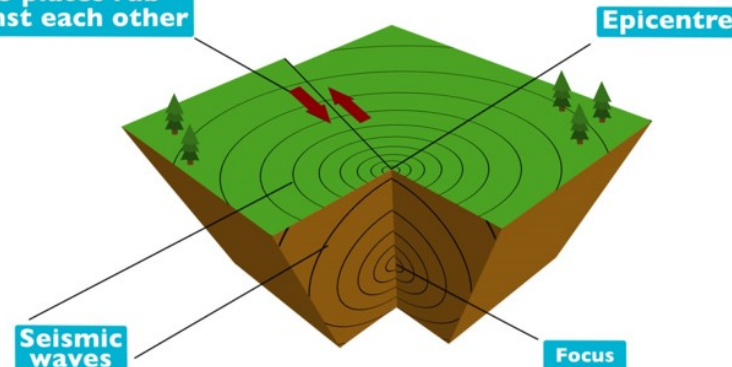


Grid References

- The grid and squares on an OS map help to narrow a search area so that you can locate places and specific features.
- Easting and northing numbers (see vocabulary) are put together to create a four-figure grid reference (e.g. 32,43). This refers to the bottom left corner of a square on the map.
- Grid references can be even more specific by adding an extra digit to both the easting and northing numbers. These six-figure grid references (e.g. 323,432) tell us more precisely whereabouts in the grid square that a feature is located.



Two plates rub against each other



Key Geographical Vocabulary

contour lines		Contour lines on a map join up areas of the same height. They are imaginary lines.
grid reference		A map reference indicating a location in terms of horizontal and vertical grid lines identified by numbers or letters.
easting		The numbers used in a grid reference that run west to east.
northing		The numbers used in a grid reference that run south to north.
epicentre		The place on the ground that is directly above where an earthquake happens.
fault line		A long crack in the surface of the earth. Earthquakes usually occur along fault lines.
Richter scale		A scale used to measure the strength of earthquakes.
magma		Molten rock (rock liquefied by heat) beneath the Earth's surface.
lava		Magma that reaches the Earth's surface.
pyroclastic flow		A cloud made up of extremely hot gas, ash and rock that flows down the side of a volcano like an avalanche.
tectonic plates		Pieces of the Earth's crust that float on the mantle.
plate boundary		Where tectonic plates meet.