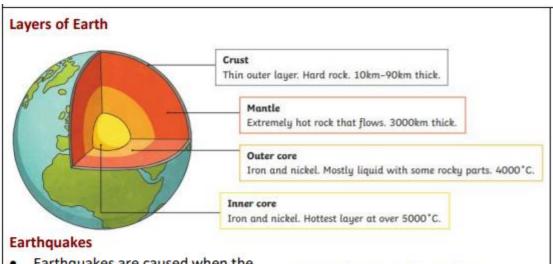
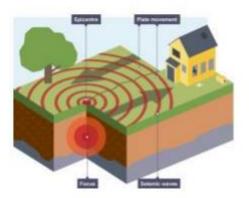
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- Earthquakes are caused when the earth's tectonic plates suddenly move.
- Most earthquakes occur near the tectonic plate boundaries.
- Earthquakes can cause lots of damage to roads, buildings and property.
- The power of an earthquake is measured using the Richter Scale.

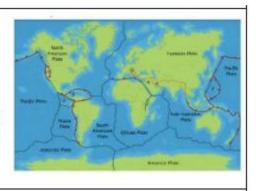


Tectonic plates

Most tectonic activity is along plate margins and the edge of continents. Some volcanoes form over hot spots in the mantle. The Ring of Fire is a region around much of the rim of the Pacific

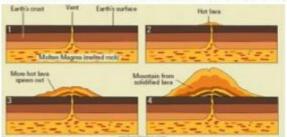
eruptions and earthquakes occur.

Ocean where many volcanic



Volcanoes

Volcanoes are made when pressure builds up inside the earth. This affects the earth's crust causing magma to sometimes erupt through it.



- Active volcanoes have erupted in the last 10 000 years.
- <u>Dormant volcanoes</u> haven't erupted in the last 10000 years but may erupt again.
- Extinct volcanoes aren't expected to erupt again.

Key Vocabulary

Core - The core is at the centre of the Earth. There is a solid inner core and outer liquid core of molten metal.

Crater - The mouth of a volcano.

Crust - The surface layer covering our planet.

Earthquake - A violent movement of parts of the Earth's surface.

Epicentre - The point on the Earth's surface at the centre of an Earthquake.

Erupt - To suddenly burst out causing lava to explode out of the earth's surface.

Lava - Molten, hot rock flowing from a volcano.

Molten - Hot, melted rocks.

Magma - Extremely hot, liquid rock.

Mantle - Under the crust is the mantle forming about half of the Earth.

Seismic waves - An elastic wave in the earth produced by an earthquake or other means.

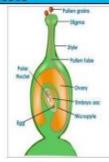
Tectonic plates - The earth's crust is made up of large areas called tectonic plates that join together.

Volcano - An opening or rupture in the Earth's crust through which lava, ash and gases escape.

Plant Processes

Fertilisation

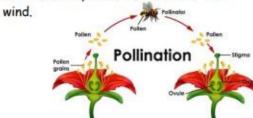
The grain of pollen grows a tube from the stigma, which goes down the style until it reaches the ovary. The male part (pollen) joins with the female part (egg) to form a seed.



This is called fertilisation.

Pollination

This occurs when the pollen grain lands on the stigma and the nucleus fuses with the ovule to form a seed. It can be carried out by insects, animals or the



Seed Dispersal

After fertilisation plants have to spread their seeds so they can grow in a new place. There are many ways that plants do this:

by the wind or water by animals eating them

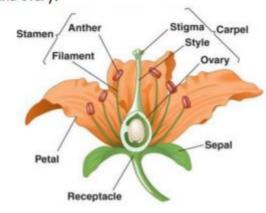
by making them stick to animal fur by explosion, dropping or shaking

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Flower Structure

The male part of the flower is called stamen. It includes the anther and filament.

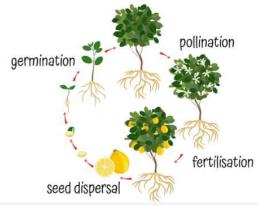
The female part of the flower is called the carpel. It includes the stigma, style and ovary.



Animal Reproduction

For most animals which live on the land, offspring are fertilised inside the mother's body. This happens in 1 of 3 ways:

- 1) The young develop inside the female and are born alive (most mammals).
- Fertilised eggs are laid outside the female's body and develop in the egg getting nourishment from the yolk.
- In some animals the eggs are held within the female and hatch as they are laid e.g. a fruit fly.



Key Vocabulary	
amphibian	A cold-blooded vertebrate
	animal e.g. frogs, toads, newts.
asexual	Offspring gets genes
reproduction	from one parent so they are
	clones of their parents.
bird	A warm-blooded egg-laying
	vertebrate.
germination	The development of a plant
	from a seed or spore after a
	period of dormancy.
insect	A small animal that has 6 legs.
life cycle	The stages a living thing goes
	through in its life.
mammal	A warm-blooded vertebrate
	animal, has hair or fur and give
	birth to live young. Females
	secrete milk for their young.
ovule (egg)	Female sex cell, found in the
	ovary.
pollen	Contains the male
	sex cells. Produced by the
	stamens.
reproduction	The process by which a
	living organism creates a
	likeness to itself.
seed dispersal	The process of plants
	spreading their seeds so they
	can grow in a new place.
sexual	Offspring get genes
reproduction	from both parents so they
	inherit a mix of
	features from both.