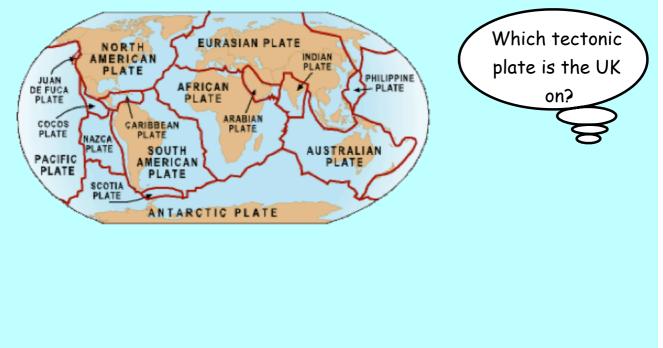
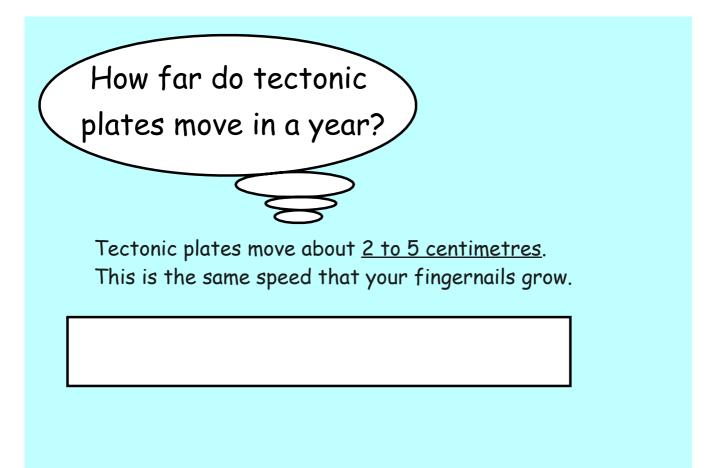
<u>Earthquakes</u> LO: I am learning to explain what an earthquake is and how

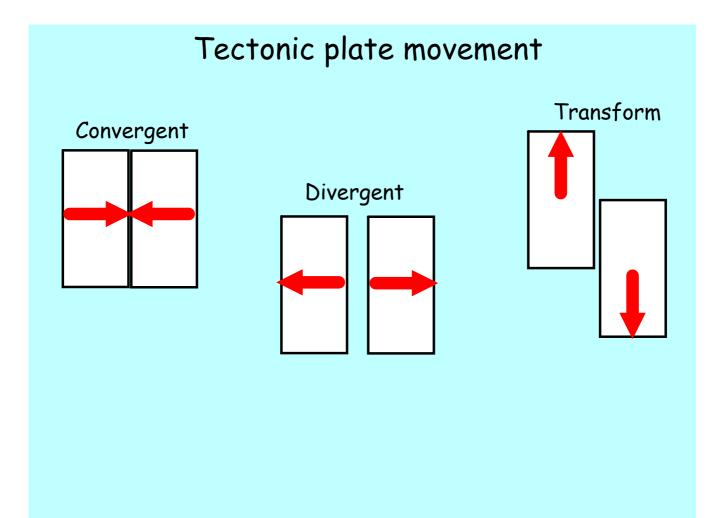
they happen.



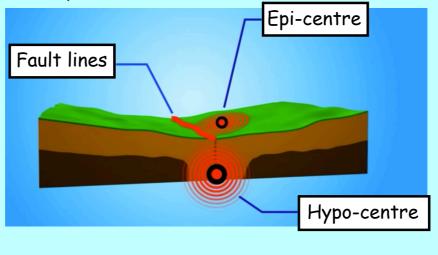
Earth is made up of huge pieces of flat rock called **tectonic plates**. These move <u>very</u>, <u>very</u> <u>slowly</u>, and places where they meet are called **faults lines**.



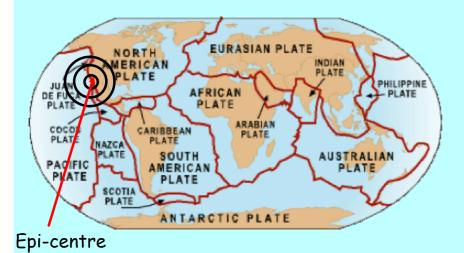




When these plates rub together, the movement forces **waves of energy** to come to the earth's surface. We feel this on the Earth's surface as an earthquake.



The **epi-centre** is the point directly above where the earthquake originates from.



Earthquakes can sometimes be nothing more than small tremors or shakes, but sometimes they can cause damage and devastation.



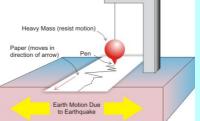


Earthquakes can make **buildings** fall down and set off **landslides**, as well as having many other deadly effects. An earthquake that occurs at the bottom of the sea can push water upwards and create massive waves called **tsunamis**.





The <u>power</u> of an earthquake is measured using a **seismometer** which plots vibrations on a **seismograph**.



Magnitude is a measure of the <u>energy released</u> from an earthquake. The **Richter Scale** measures magnitude which is how much energy is released from an earthquake.

Intensity is measured by the <u>effects</u> of earthquakes, so if there was a lot of damage the earthquake has a high intensity.

1.How many earthquakes do you think happen each year?

A. 20,000

B. 84

- *C*. 500,000
- D. 1,900

There are about 500,000 earthquakes a year around the world. 2.How many earthquakes of the earthquakes that happen each year cause damage?

A. 100

B. 1,000

C. 100,000

D. 10

About 100,000 of those can be felt, and only 100 or so cause damage each year. 3.How many earthquakes happen in California each year?

A. 200,000

B. 400

C. 5,000

D. 10,000

Each year, California alone experiences about **10,000** earthquakes, most of them not felt by people.

LO: to be able to explain what an earthquake is and how they happen	
Task: Answer this question as fully as you can. Re-watch the lesson video and pause to jot down information y need or look through the slides which are saved as a PDF.	What is an earthquake and how do ou they happen
You may set this out how you wish. You can hand write it, type and you can add diagrams if it would help you explain.	it
Use the key vocabulary (spelt correctly!) below when writing your explanation.	
Tectonic plates, fault lines, epi-centre, convergent, divergent transform, seismometer, seismograph, magnitude, richter scale intensity	э,

- Convection currents for all.docx
- Convection currents.docx
- Diagram of the Earth.docx
- Wedge Earth to label.docx
- Table to complete.docx
- HA-word-bank.pptx
- MA-word-bank.pptx
- Word bank MA.docx
- Word bank more details.docx
- World map showing tectonic plates.docx
- 1. A Slice Through the Earth.ppt