

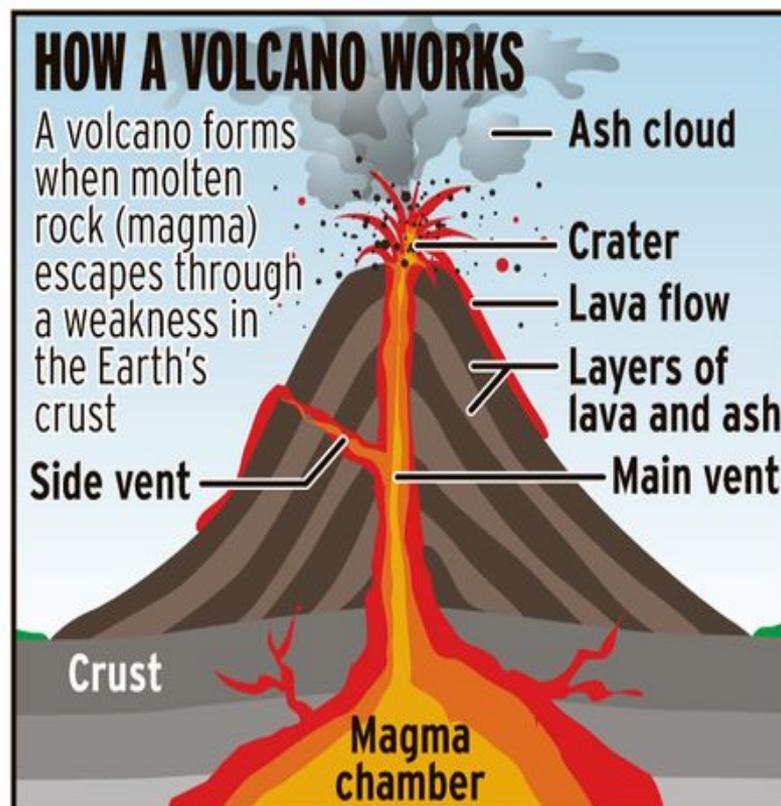
What is a volcano

The **crust** of the Earth **floats** on the 'liquid' **mantle**.

At some points where the crust might be weaker there are **concentrations of magma**. The magma is liquid rock. These concentrations of magma form **underground chambers**.

As the magma keeps concentrating in the chambers **pressure builds up**.

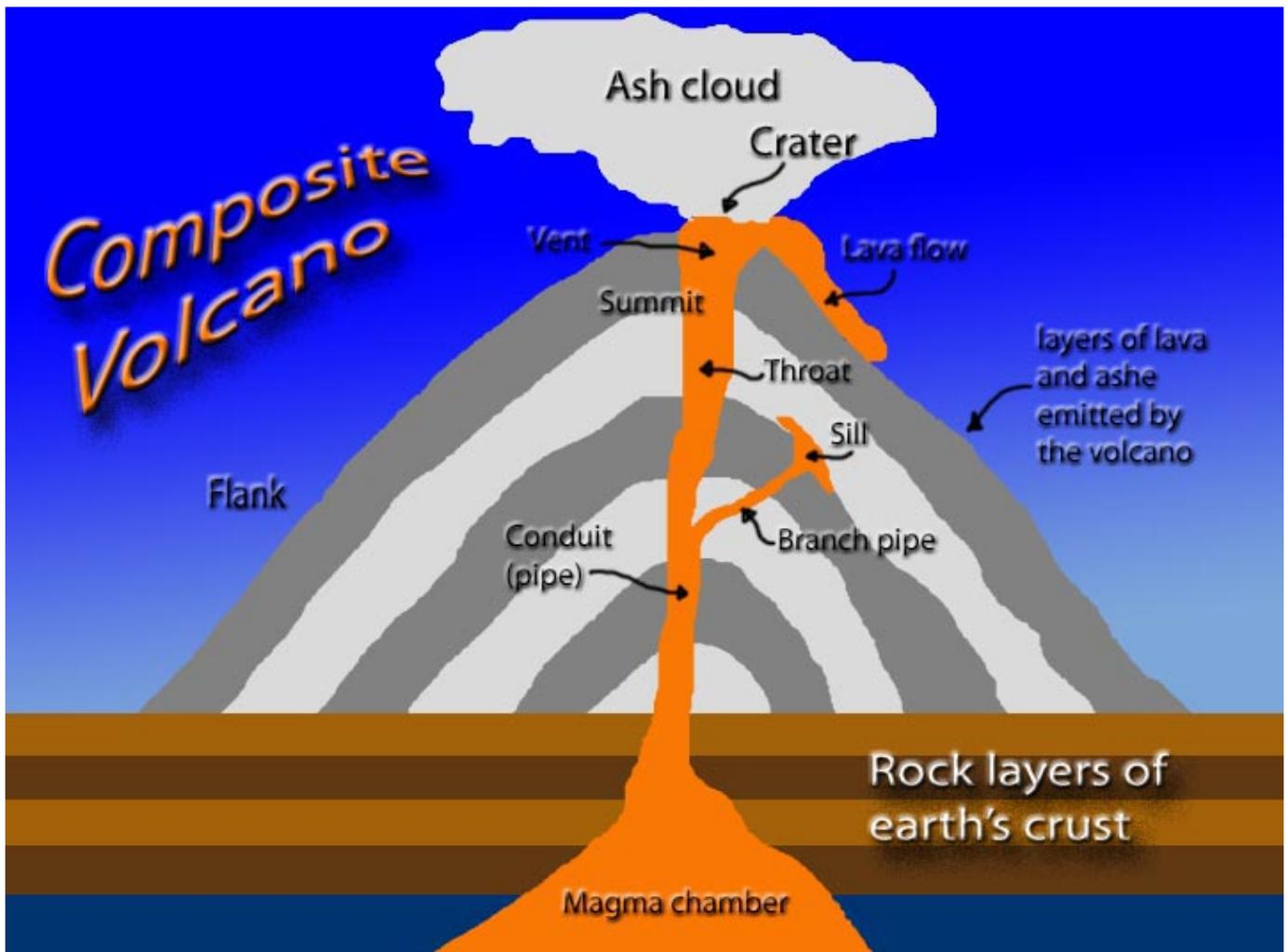
When too much pressure is built up an **eruption** occurs. That is the crust 'cracks' and the concentrated magma **spews out**. Gases and liquid rock **shoot up** through the opening (the 'crack') and cause massive destruction on the surface. The magma that **flows out** of a volcano is called **lava**.



Parts of a volcano

* Look at the illustration below and define the following terms.

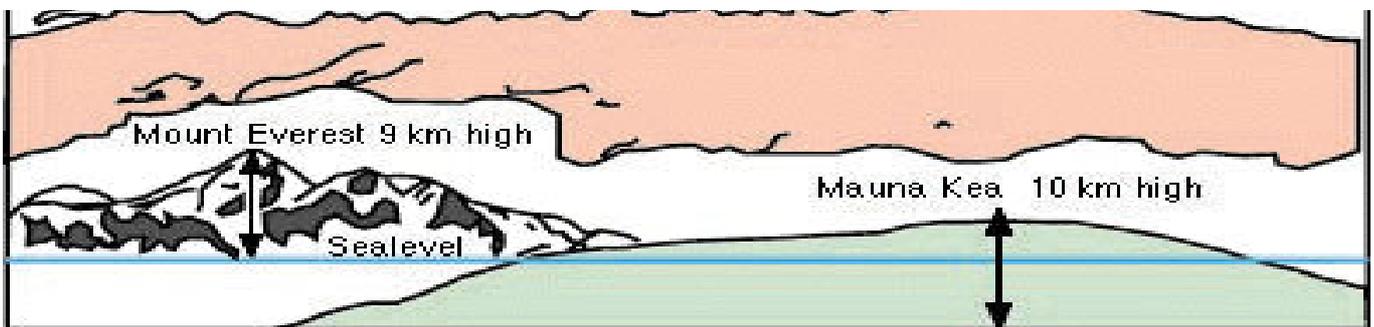
1. magma chamber =
2. pipe =
3. conduit pipe =
4. branch pipe =
5. crater =
6. vent =
7. flank =
8. summit =



Volcanoes around the world

The eruption **ejects** molten rock and clouds of **thick ash** high into the atmosphere. Eventually the ash **falls back** on the surface **covering a massive area** around the volcano **killing most life** in the surrounds area. As the lava flows out of the volcano it becomes solid and the volcano gets bigger and bigger.

Two of the world's largest volcanoes are Mauna Loa and Mauna Kea in Hawaii. They are even taller than Mount Everest.



There are active, dormant and extinct volcanoes.

The **active** volcanoes have recently erupted and they may erupt again soon.

The **dormant** volcanoes erupted a long time ago but it is not impossible to erupt again in the future.

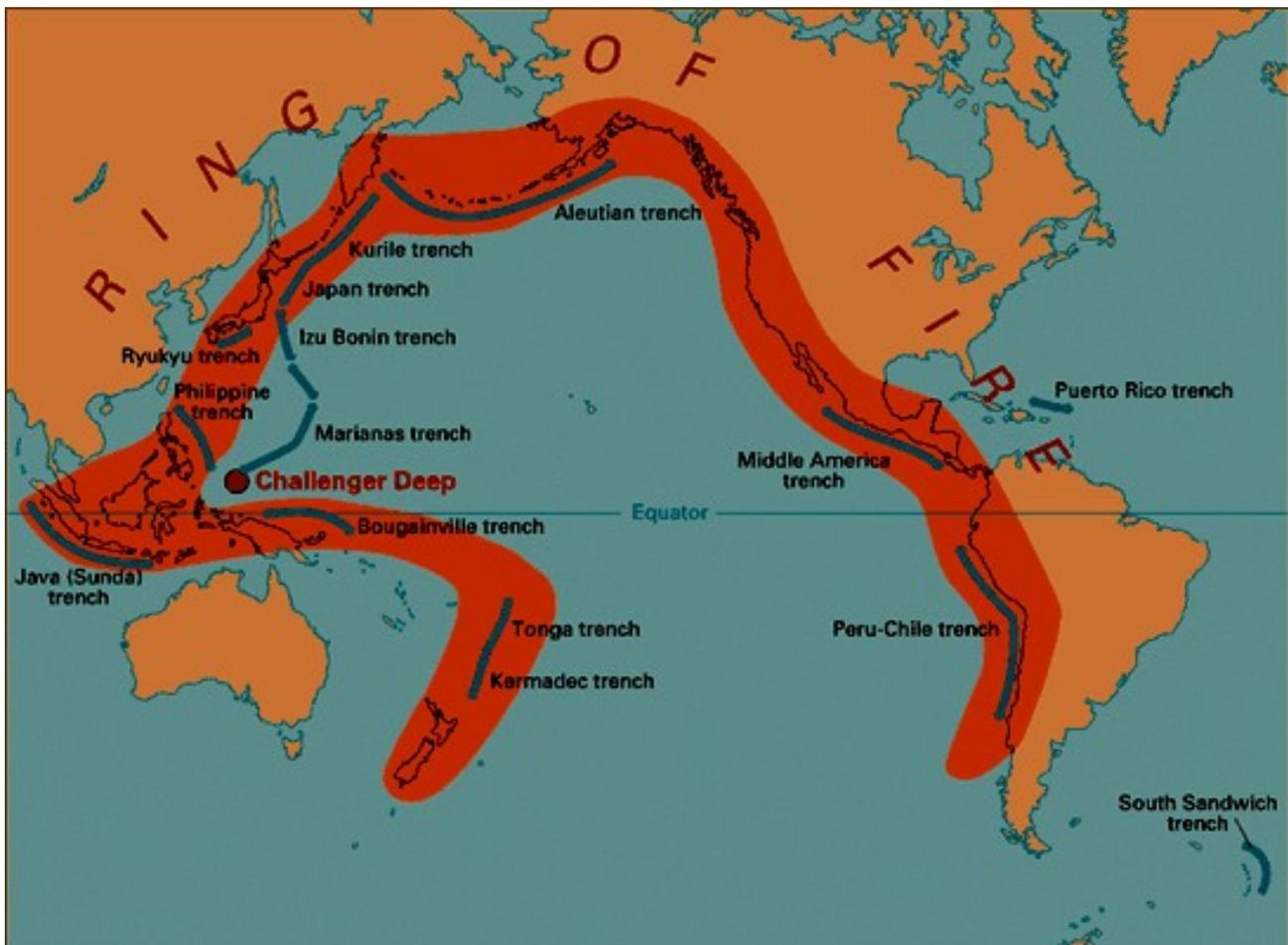
The **extinct** volcanoes erupted thousands of years ago and there is no possibility of erupting again.

The Ring of Fire

The Pacific Ring of Fire is an area of frequent earthquakes and volcanic eruptions. It is defined by the borders of the Pacific Tectonic Plate.

The Ring of Fire has **452 volcanoes** and is home to over 50% of the world's active and dormant volcanoes.

90% of the world's earthquakes and 80% of the world's largest earthquakes occur along the Ring of Fire.



Quiz

spews out pressure chambers magma
 mantle lava floats

The **crust** of the Earth on the 'liquid'.....

At some points where the crust might be weaker there are **concentrations of**..... The magma is liquid rock. These concentrations of magma form **underground**.....

As the magma keeps concentrating in the chambers..... **builds up**.

When too much pressure is built up an **eruption** occurs. That is the crust 'cracks' and the concentrated magma..... Gases and liquid rock **shoot up** through the opening (the 'crack') and cause massive destruction on the surface. The magma that **flows out** of a volcano is called.....

Parts of a volcano

Match

- | | |
|--------------------|-----------|
| 1. magma chamber = | opening |
| 2. pipe = | room |
| 3. conduit pipe = | side |
| 4. branch pipe = | top |
| 5. crater = | main road |
| 6. vent = | side road |
| 7. flank = | |
| 8. summit = | |

Volcanoes around the world

borders	home	frequent	dormant	extinct
active	occur	killing	massive	ejects

The eruption..... molten rock and clouds of **thick ash** high into the atmosphere. Eventually the ash **falls back** on the surface **covering a..... area** around the volcano..... **most life** in the surrounds area.As the lava flows out of the volcano it becomes solid and the volcano gets bigger and bigger.

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