

### Areas of restless earth we are studying

volcano	a mountain or hill where magma, ash, hot vapor or gas have erupted
Tornado	violent rotating winds with an appearance of a funnel developed over land
cyclone	similar to a tornado but developed over the ocean
hurricane	a tropical storm or much bigger cyclone with over 74 mph winds, generally in the Atlantic Ocean, Caribbean, Gulf of Mexico
typhoon	same as a hurricane but called a typhoon in the Pacific
landslide	the sliding down of a mass of earth or rock from a mountain or cliff
avalanche	a mass of snow, ice and rocks falling down a mountainside.
tsunami	Japanese word for harbour wave. It is a long high sea wave caused by a disturbance like an earthquake.

### Key Questions

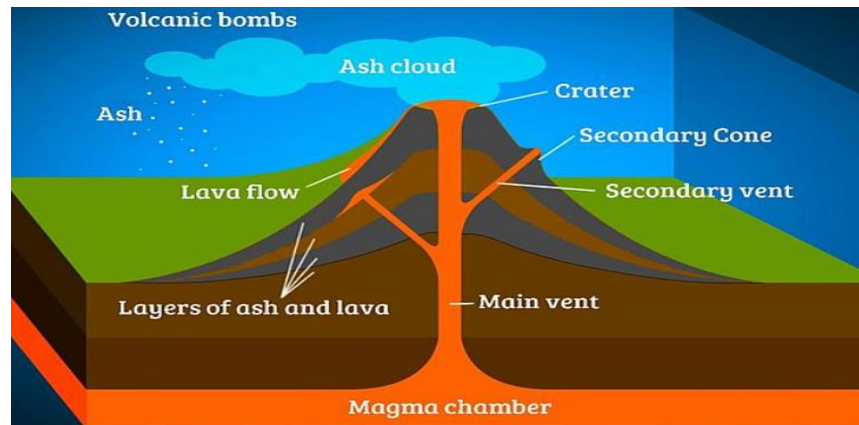
Where does the magma come from?

Why do volcanoes erupt?

Besides Mount Vesuvius how many other volcanoes can you name?

### Volcano Basics

inner core	is a solid layer and is made of solid and nickel. It is the hottest part of the Earth and reaches over 5500°C
outer core	is a liquid layer made out of molten iron and nickel
mantle	is approx 2897km thick. It is made up of magma or molten rock
crust	outer layer of the Earth
magma	also known as molten rock. It is a rocky substance. this is what escapes when a volcano erupts
magma reservoir	is a large underground pool of liquid rock found beneath the surface of the Earth
ash cloud	a cloud of ash- it is formed by volcanic explosions
throat	the entrance of a volcano- It ejects lava and volcanic ash
vent	an opening in the surface of the earth through which volcanic materials can escape
conduit	an underground passage which magma travels through
erupt	eject lava, ash and gases



### visual difference between Tornado, Cyclone, Hurricane and Typhoon



**Tornado**



**Cyclone**



**Hurricane or Typhoon**

#### Other terminology

wind Speed	the rate at what the wind travels
temperature	how hot or cold something is
prevention	the action of stopping something from happening
wave	a long body of water curling into an arched form

#### Key Questions

What are tsunamis caused by?

What can be done to prevent casualties in these situations?

There are 5 types of hurricanes/typhoons, can you find out what they are?

How are avalanches the same and different to landslides?

What are the differences between Cyclone and Tornado?



**Tsunami**



**Avalanche**



**Landslide**