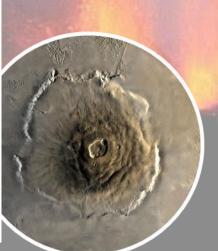
### VOLCANOES















#### **VOLCANOES!**

By now - if you have done last week's work and read the daily read - you should have a great understanding of what a volcano is.

Watch this mesmerising clip

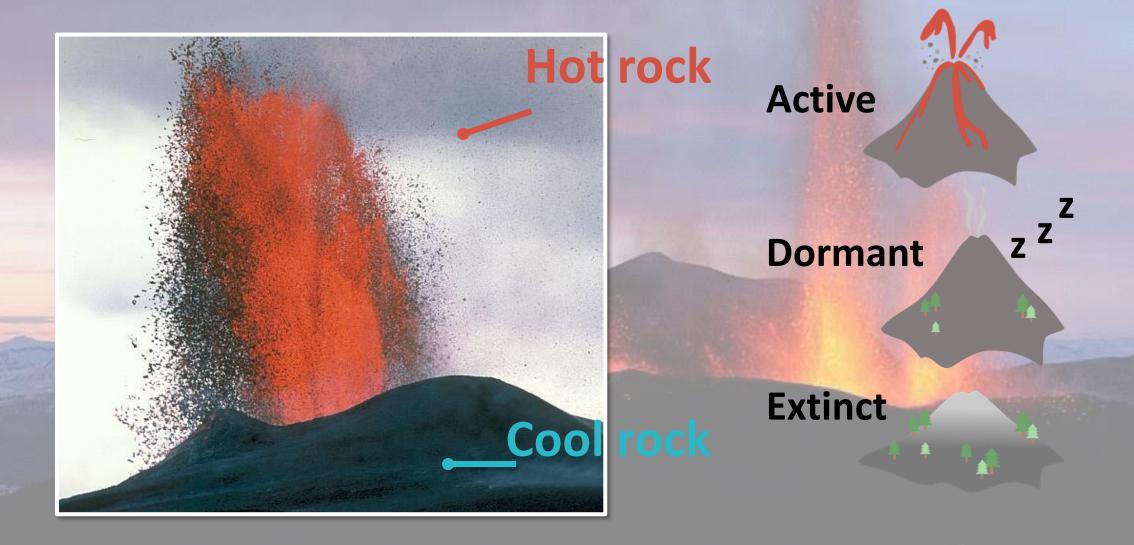
https://www.youtube.com/watch?v=xExdEXOaA9A



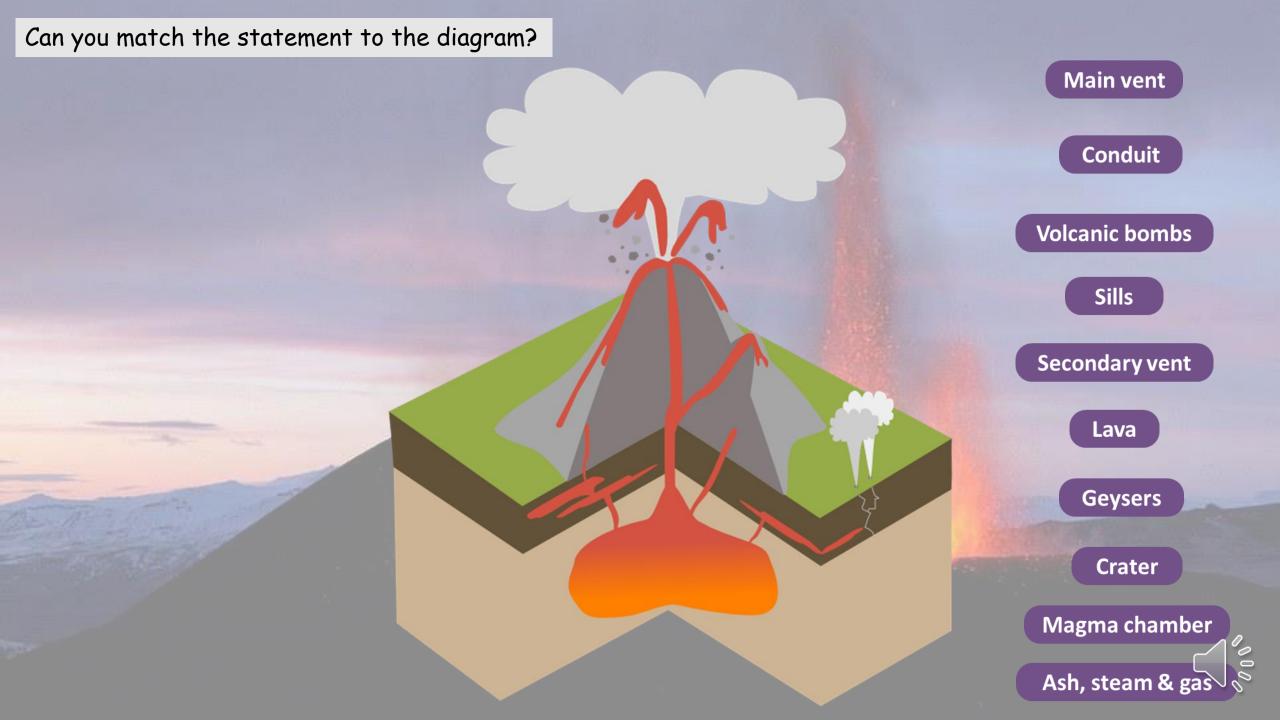
- What was happening in the video?
- What was all of that red stuff?
- Was is solid or liquid?
- · What temperature do you think it might have been?
- Where was it coming from?
- What will happen to the red material?
- Why do you think it was red/orangey in colour?
- · Why do you think it sometimes exploded and sometimes flowed along the ground?

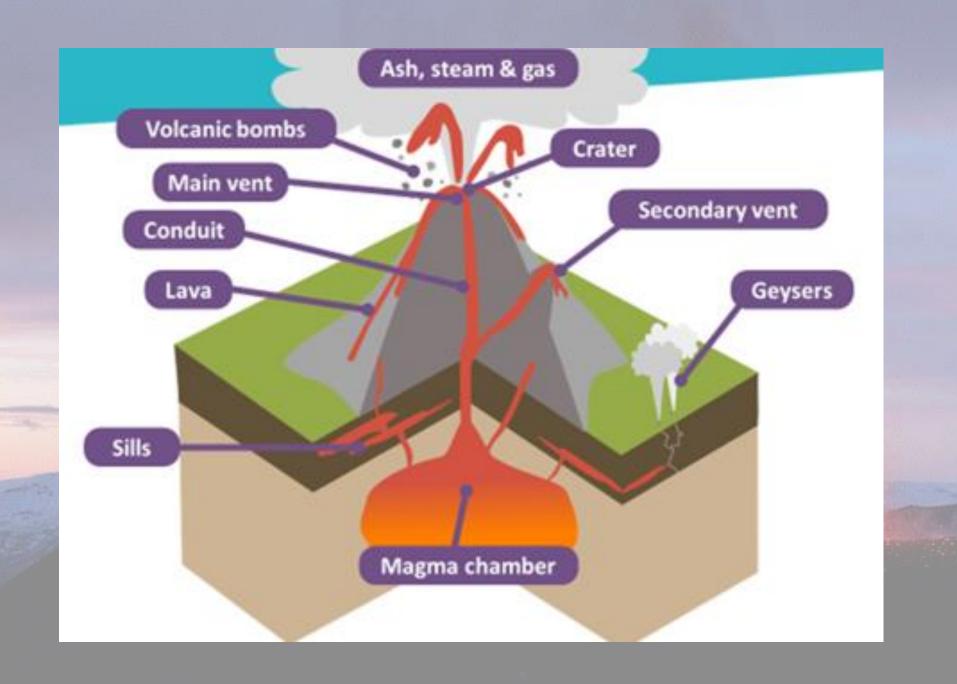


#### WHAT IS A VOLCANO?









# DIFFERENT TYPES OF ERUPTION



Not all eruptions are the same











### TYPES OF LAVA

Not all lava is the same











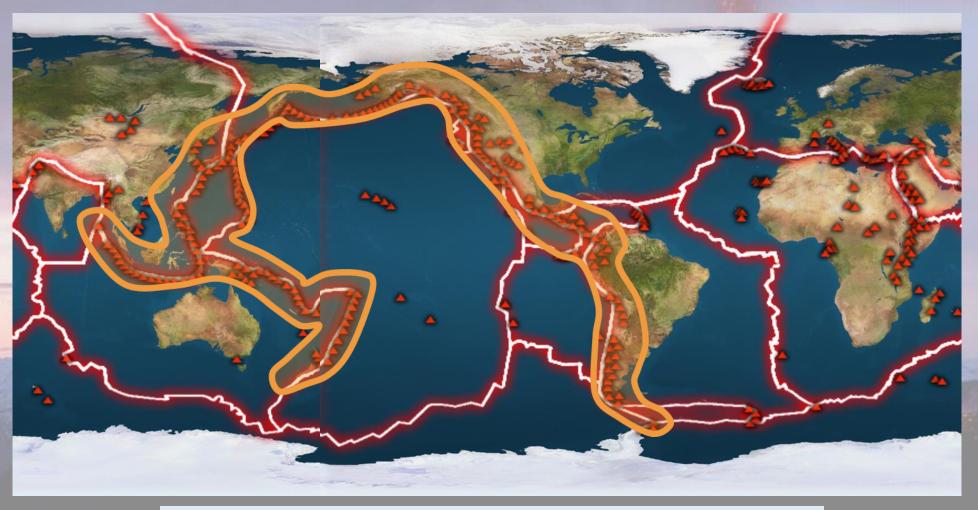
#### WHERE DO VOLCANOES FORM?

What is this map showing and what do you notice?





### PACIFIC RING OF FIRE

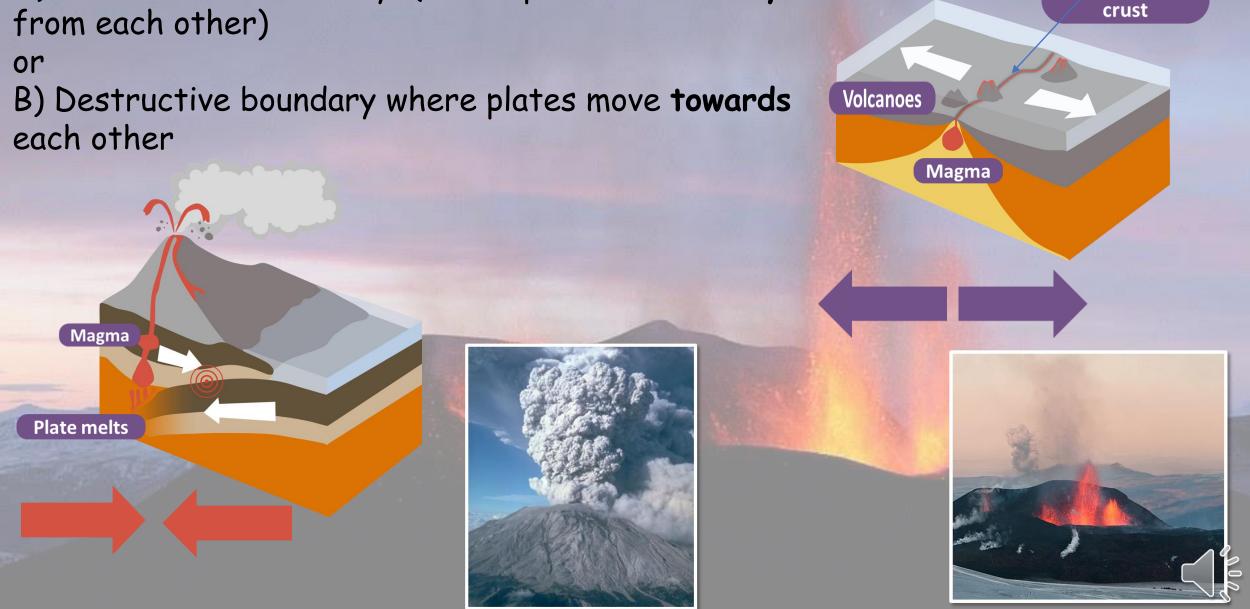


Look at the density of volcanoes in this particular region. No wonder it is called the "ring of fire"



How do volcanoes form?

A) Constructive boundary (where plates move away

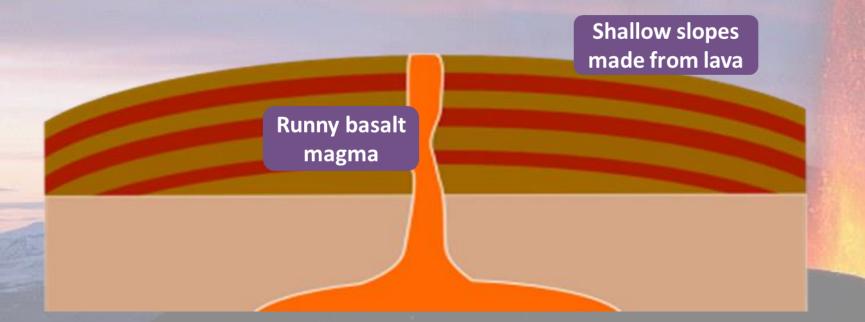


**New ocean** 

#### HOW DO VOLCANOES FORM? HOT SPOTS

Older extinct volcanoes **Active volcano** Magma Plate moving over hotspot **Hot spot** 

# TYPES OF VOLCANOES: SHIELD VOLCANOES

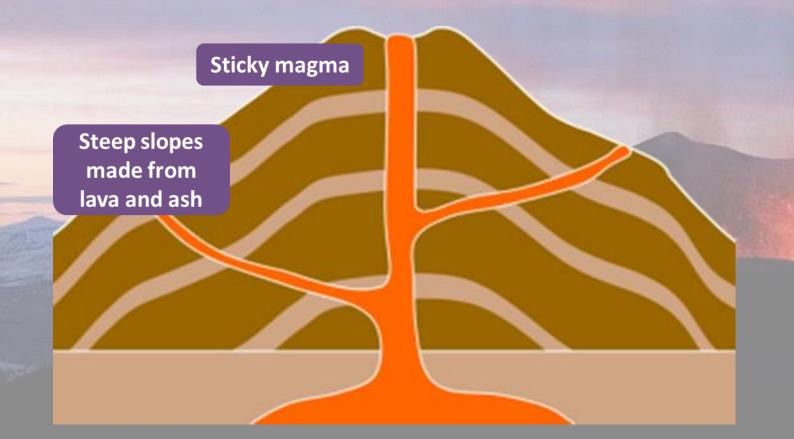




Kilauea lava lake, Hawaii



## TYPES OF VOLCANOES: COMPOSITE VOLCANOES





Mount Fuji, Japan



Now you are a volcano expert - show your learning by:

- a) Drawing an annotated diagram showing an **explosive** volcano (Remember you will need to know why it is an explosive and not an effusive eruption and show that bit in your diagram)
- b) Explain why the Ring of Fire is given that name. Answer geographically tell me why there are many Volcanoes there.
- c) On the map can you identify other areas of volcanic activity. Can you match them up with the Earth's plates?

Extension - can you now describe an effusive volcano eruption? Where are the majority of explosive eruptions (which plates/continents) Where are the majority of effusive eruptions? Why do you think they occur there?