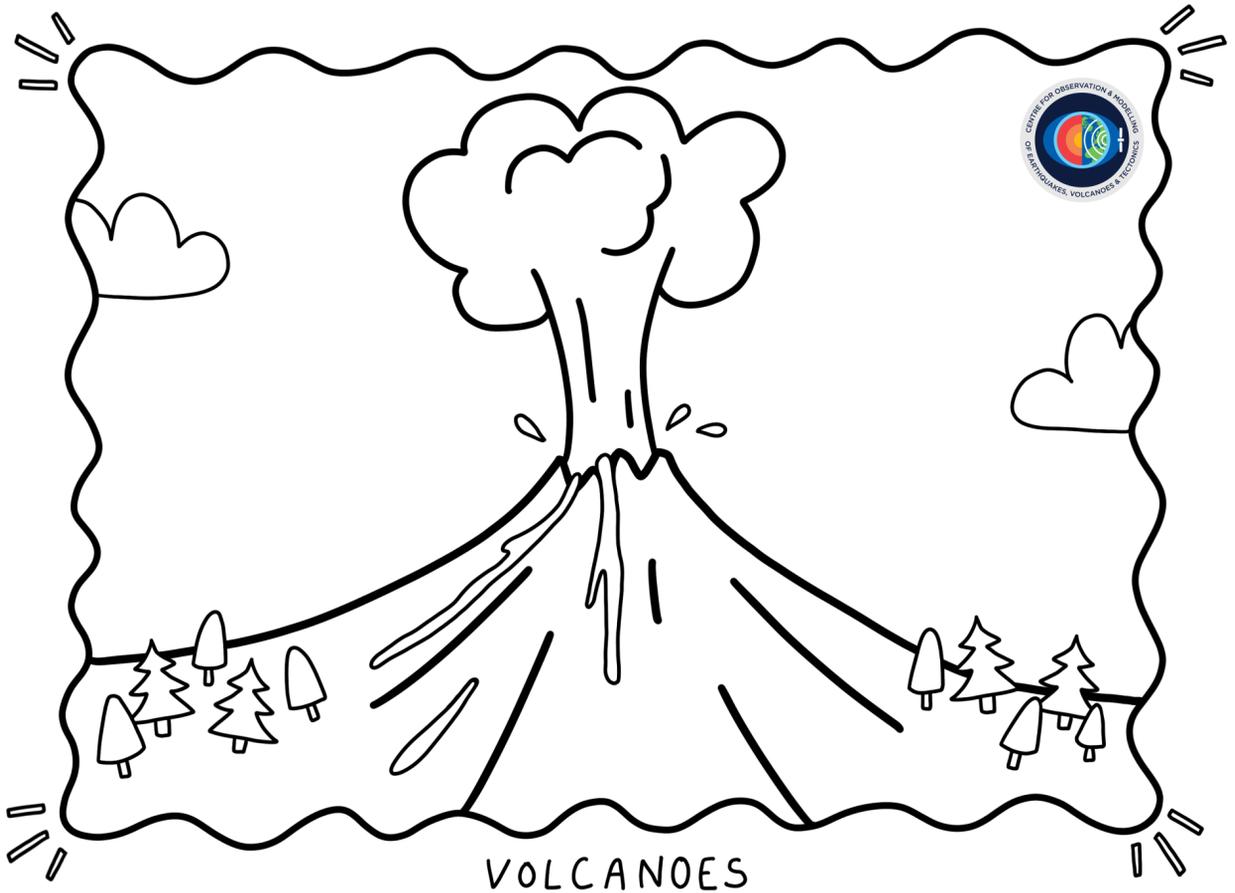


COLOUR OUR RESEARCH!



WHO ARE UK COMET?

UK COMET stands for the Centre for Observation and Modelling of Earthquakes, Volcanoes, and Tectonics.

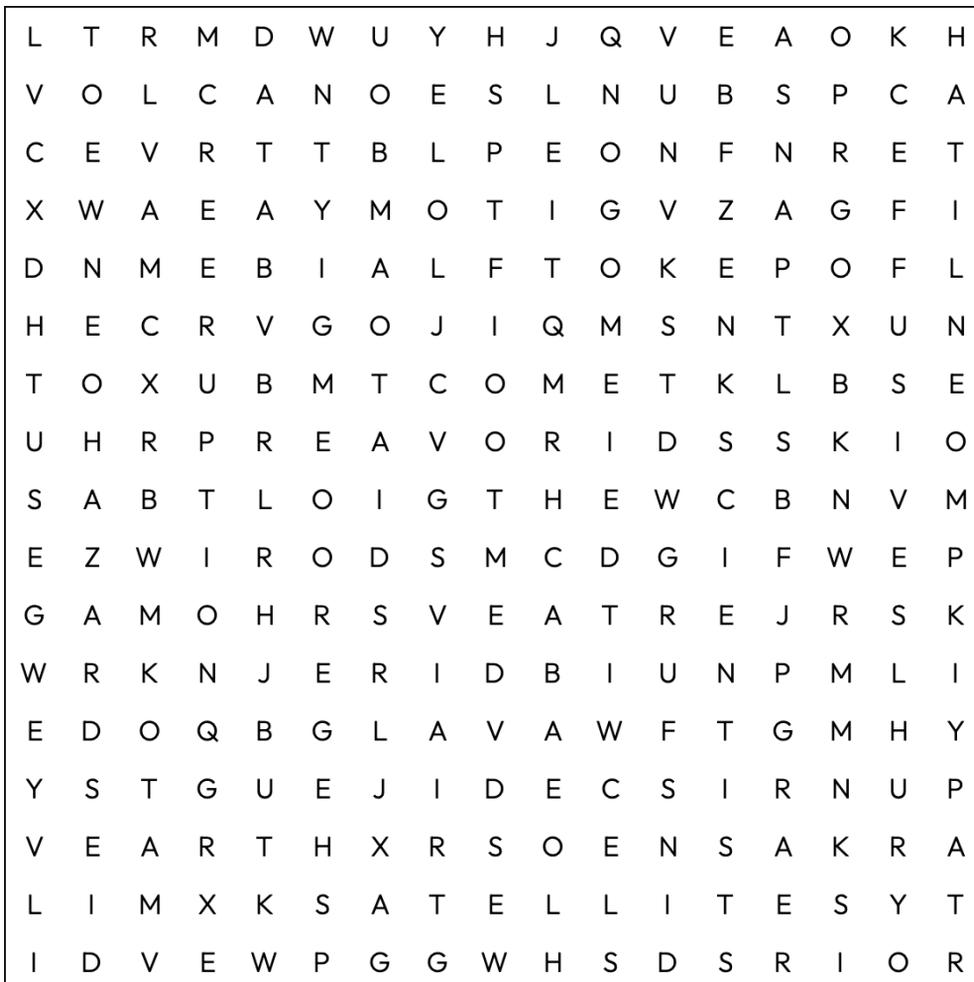
We are a group of scientists from 14 universities and the British Geological Survey, who work together to understand some of the earth's most amazing features!

Using data from satellites, and sensors on the ground, the work of our scientists helps us to better predict and monitor volcanic eruptions and earthquake activity!



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Find the words in BOLD in the grid!

VOLCANOES are places where **MOLTEN** hot rock from deep within the earth erupts to the surface.

Underground, liquid rock is known as **MAGMA**, above the ground it is called **LAVA**.

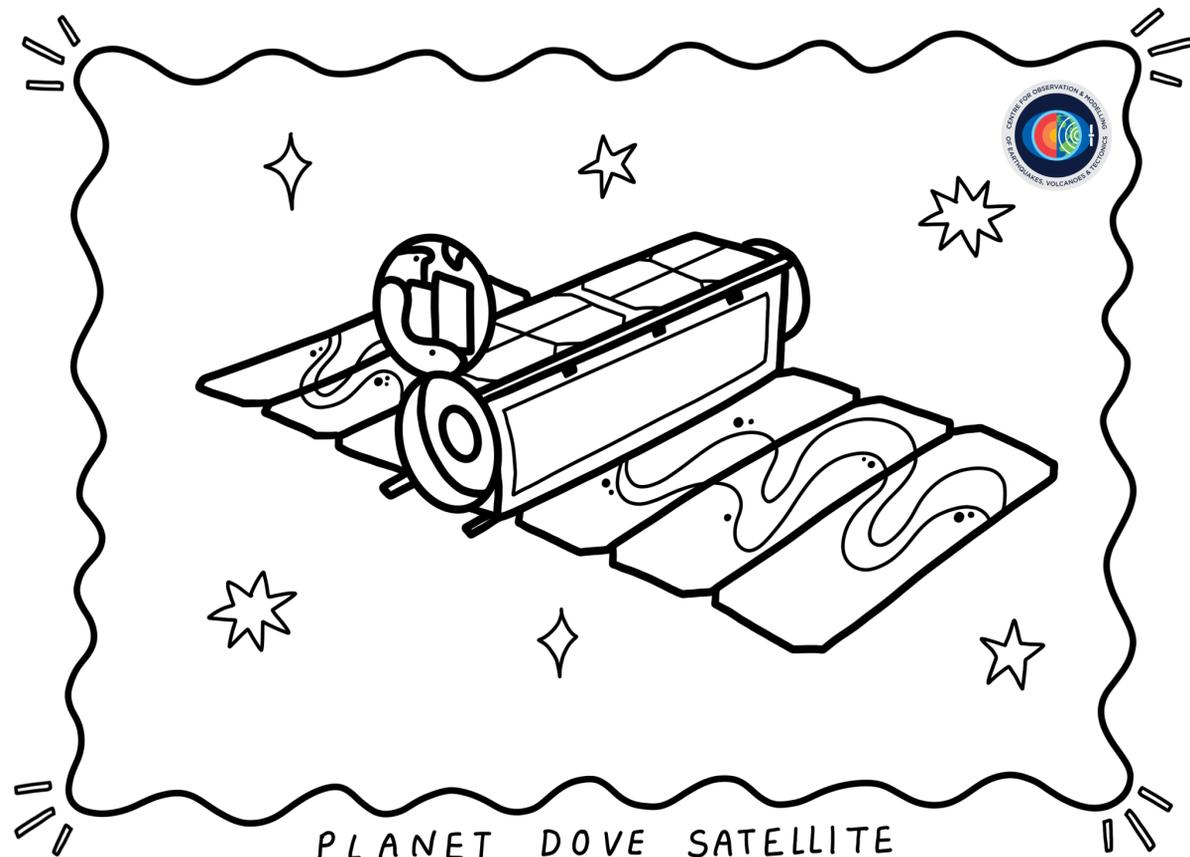
Eruptions can be **EXPLOSIVE** or **EFFUSIVE** (when lava pours out over the ground).

SCIENTISTS in **COMET** study volcanoes to help us understand how they work, and read all the signs that an **ERUPTION** could be coming.

They often do this using **DATA** that comes from **SATELLITES** in space looking down at the **EARTH**!

RESEARCH on volcanic **HAZARDS** is very important to keep all the people who live near volcanoes safe!

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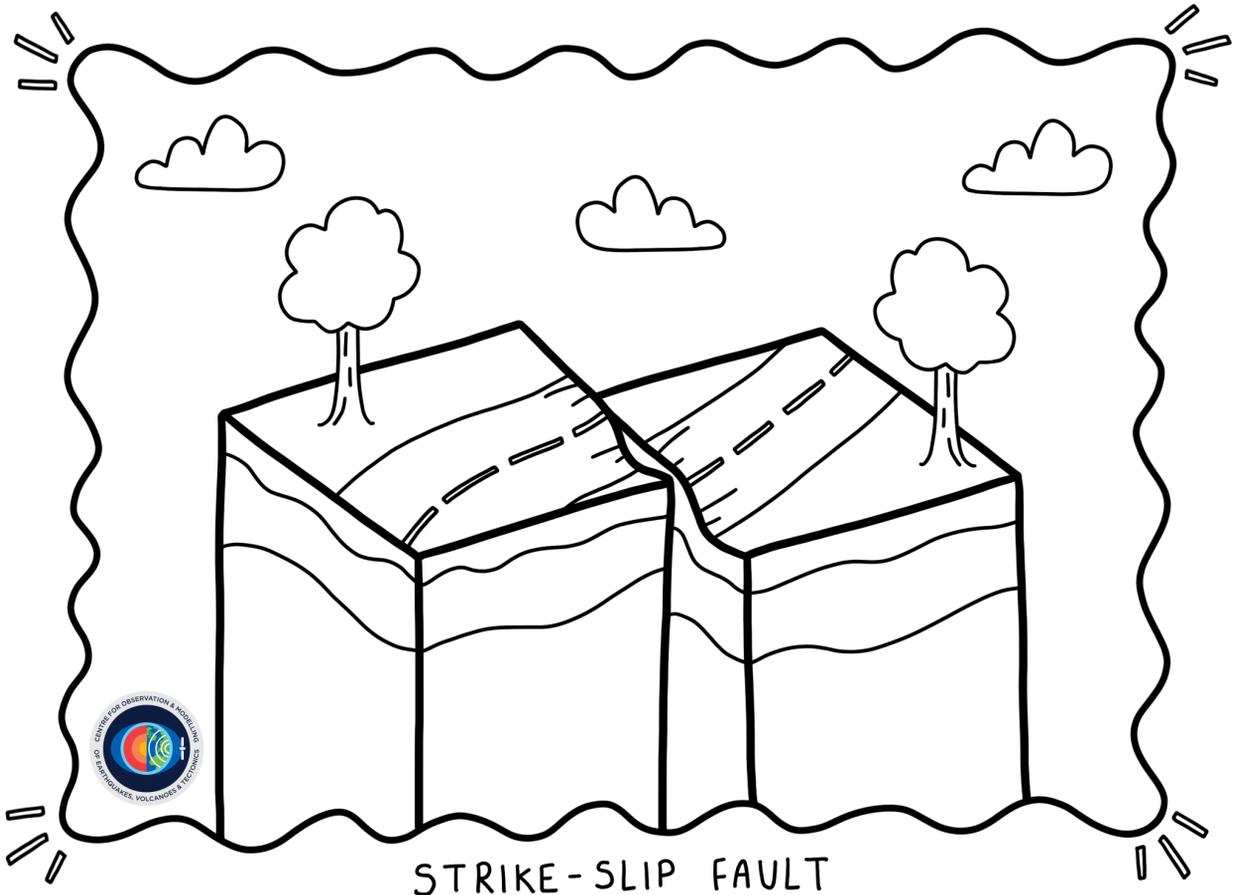
Amazingly, one of the best places to study the earth is from **SPACE!**

SATELLITES use **RADAR** waves to measure the **DISTANCE** between them and the **EARTH**. If this distance ever changes it means the earth has moved.

This change could be because an **EARTHQUAKE** has made the ground slip away, or because **MAGMA** is swelling under the **SURFACE** (maybe meaning a **VOLCANO** is about to **ERUPT!**)

Our **SCIENTISTS** in **COMET** can measure this **DATA** and show it in special maps called **INTERFEROGRAMS**, where different colours are used to show where the changes have happened!

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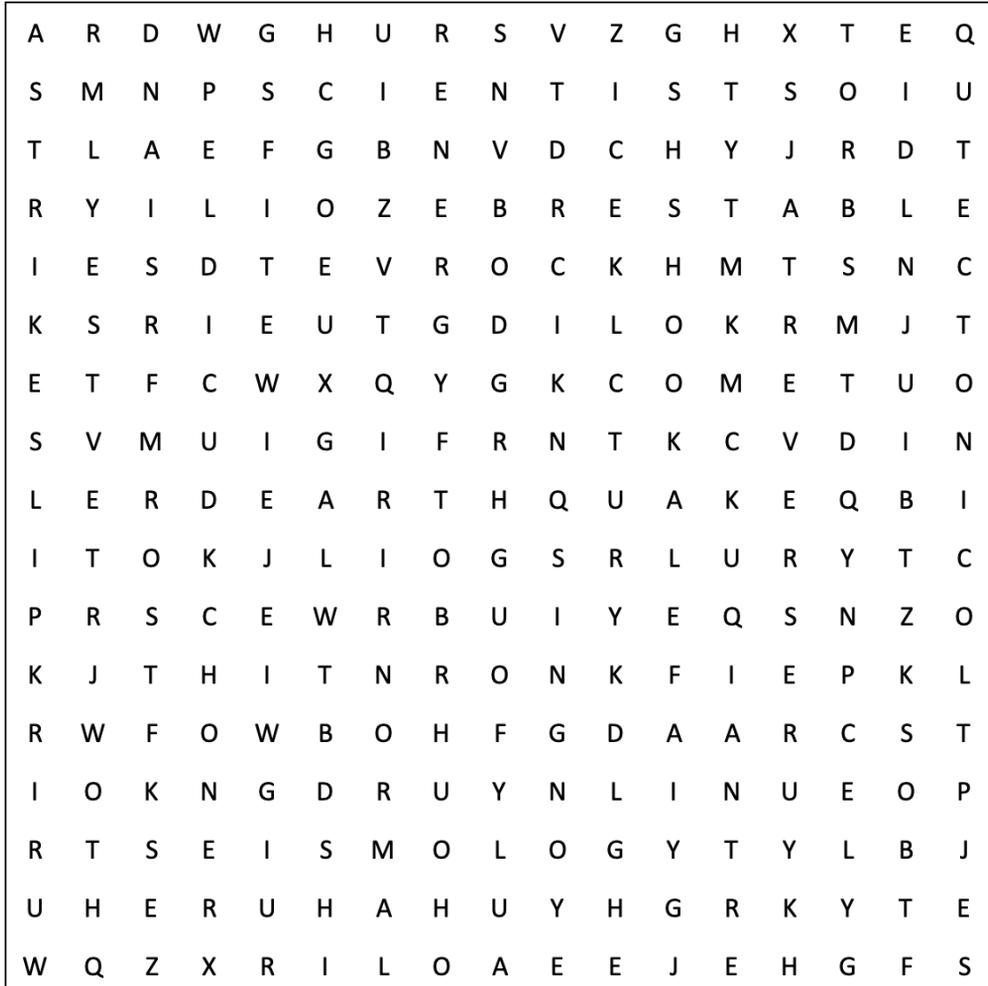
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The **GROUND** under our feet is not always **STABLE**! The rock on our planet is constantly moving because of **TECTONIC** forces. When the ground shifts, it creates **FAULTS** in the **ROCK**. There are three main types of fault.

A **NORMAL** fault is when one side slides down the other, because they are being pulled apart.

A **REVERSE** fault is when one side is pushed up over the other, because they are being pushed together.

A **STRIKE-SLIP** fault is when the land on both **SLIDE** slide past each other.

If enough **ENERGY** is released by these faults, it can cause an **EARTHQUAKE**. Our **SCIENTISTS** in **COMET** study the way these faults are created to help us understand earthquakes. This type of science is called **SEISMOLOGY**.