Topic: Volcanoes and Earthquakes

| How are volcanoe How are earthqua Where are some of Key facts and figures How are volcanoes formed? | | equakes? |
|---|--|--|
| • Where are some of Key facts and figures How are volcanoes | Magma rises through cracks or weaknesses in the Earth's crust. Pressure builds up inside the Earth. When this pressure is released, e.g. as a result of plate movement, magma explodes to the surface causing a volcanic eruption. The lava from the eruption cools to form new crust. Over time, after several eruptions, the | Ash Vent Crater Summit Lava |
| How are volcanoes | weaknesses in the Earth's crust. Pressure builds up inside the Earth. When this pressure is released, e.g. as a result of plate movement, magma explodes to the surface causing a volcanic eruption. The lava from the eruption cools to form new crust. Over time, after several eruptions, the | Summit Leva Throat |
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| | | Country Rock Country Rock Magna Reserved |
| What causes an earthquake? | An earthquake is the shaking and vibration of the Earth's crust due to movement of the Earth's plates (plate tectonics). Earthquakes can happen along any type of plate boundary. Earthquakes occur when tension is released from inside the crust. Plates do not always move smoothly alongside each other and sometimes get stuck. When this happens pressure builds up. When this pressure is eventually released, an earthquake tends to occur. | Ects Exercised Selence vaves |
| Where are some of | Mount Vesuvius, near Naples, Italy | Mount Tambora, Indonesia |
| the world's most famous volcanoes? | Krakatoa, Indonesia Mount St. Helens, Washington, USA | Mauna Loa, HawaiiKrakatoa, IndonesiaSantiago Island, Ecuador |
| Did you know…? | | |
| The object with the Covered in volcan Volcanic eruption Pumice is a unique Scientists use the directly above whete | b originally comes from the name of the Roman e most volcanic activity in our solar system is I noes, its surface is constantly changing due to the s can send ash high into the air, over 30km (17 e volcanic rock (igneous) that can float in wate different speeds of seismic waves to locate the ere the earthquake originated) of earthquakes. Il earthquake ever recorded on Earth was in Va of 9.5. | o, one of Jupiter's moons. The large amount of volcanic activity. I miles) above the Earth's surface. Fr. Expicentre (the point on the surface |
| Volcano | Eartho | uako |
| Volcano Magma Lava Crater Earth's crust Eruption | • Earth's | s plates ectonics htre |
| Main vent | Seismi | ic waves |

Part 1: Circle one correct answer for each question

1. A volcano is full of:

- a) water
- b) lava
- c) trees
- d) air

2. Lava is:

- a) Water inside the volcano
- b) The air surrounding a volcano
- c) The name of the magma when it comes out of the volcano
- d) A worm

3. Volcanoes form when:

- a) A gap forms between two tectonic plates
- b) When it is hot weather
- c) There is a full moon
- d) When there is an earthquake

4. An earthquake is caused by:

- a) Elephants stampeding
- b) Meteorites hitting the Earth
- c) No one knows why
- d) Tectonic plates bumping against each other

5. The Christchurch earthquake happened in:

- a) Britain
- b) New Zealand
- c) Australia
- d) China

6. Some earthquakes can cause:

- a) Tsunamis
- b) Mud slides
- c) Meteorites
- d) Answers a and b

Part 2: Complete these sentences:

7. The Ring of Fire is in the _____ Ocean.

8. The place where an earthquake started is called the ______.

9. Two of the Earth's layers are called ______ and _____.

Total marks (out of 10)start of unit _____end of unit _____