

What is a Volcano?

Page 5 of your workbook

A volcano is an opening or vent (usually in the form of a mountain) in the earth's surface through which rising magma is released from the mantle.

Key features of a Volcano

Write the correct label next to the appropriate number on the volcano diagram. 2 of these labels do not attach to a number, they can go anywhere.

- a) Magma chamber - a store of molten rock deep below the Earth's surface
- b) Layers of Lava flow down the mountainside over layers of lava from previous eruptions.
- c) Crater - a funnel shaped hollow at the top of the volcanic cone
- d) Tephra is solid material of varying size ranging from volcanic bombs to fine ash that is ejected into the atmosphere.
- e) A secondary vent forms if the main vent is blocked and magma is forced to the surface by another route.
- f) When a volcano erupts magma from below the Earth's surface rises up through the main vent.
- g) Lahars = A fast flowing river of lava, mud, ash and melted snow and ice.
- h) Pyroclastic Flows = High velocity flows made up of a mixture of super-heated (over 880 degrees) gas and volcanic material. Flow down sides of volcanoes at speeds of up to 700km/h.

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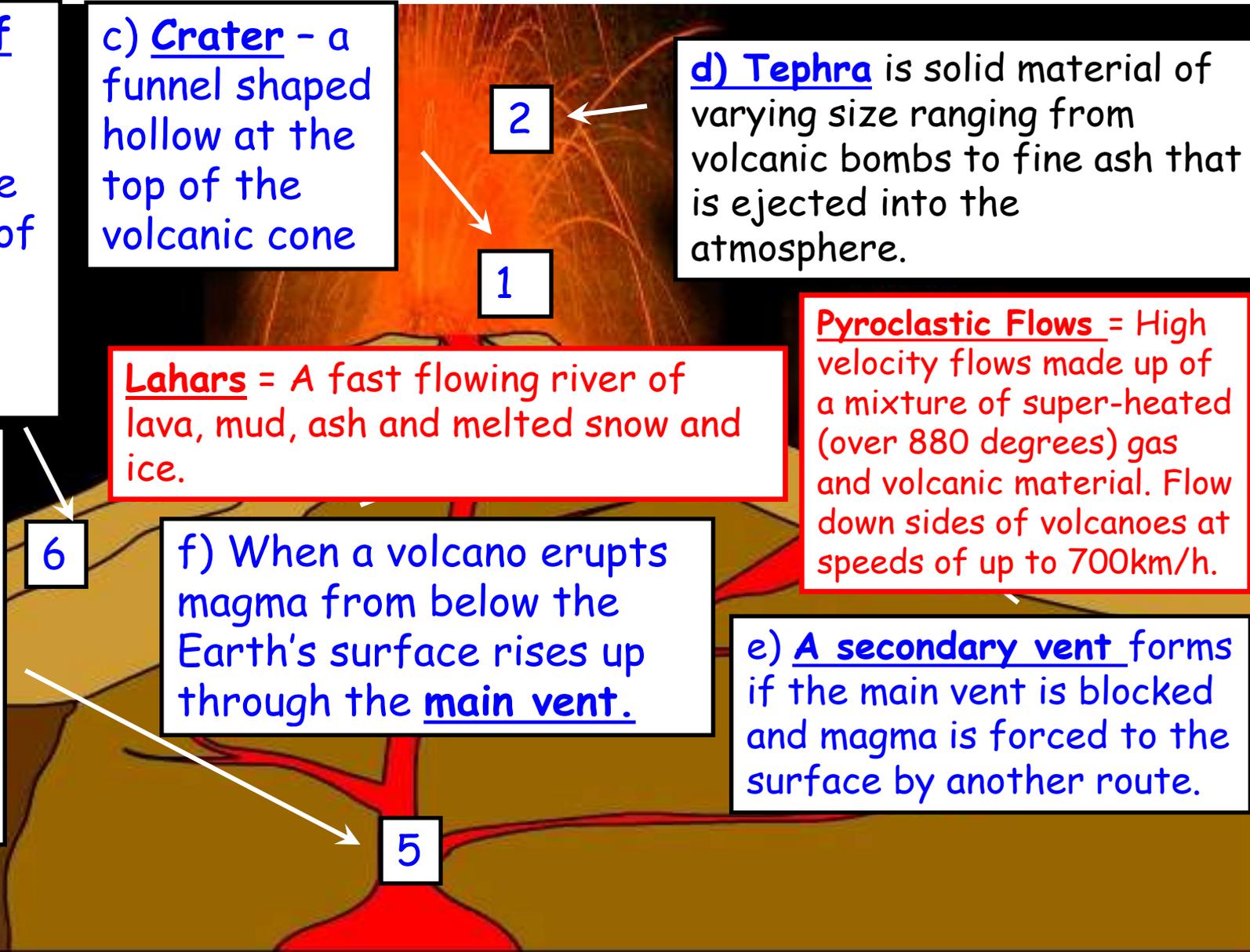
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What happens when a volcano erupts?

1. [Recap video \(3.13 min\)](#)
2. Watch this video on [Pyroclastic Flows](#)
3. [Twitter time lapse video](#) of lava flow from Hawaii
4. [Eruption of Pinatubo \(2.31 min\)](#)
5. Iceland: a Volcanic History DVD (disc 2 program 1) - fast forward to map graphic showing Heimaey.
 - <https://www.youtube.com/watch?v=ghl33n26d44>

