TE PANE O MATAOHO – MANGERE MOUNTAIN



Rock Identification



Igneous rocks are tough. This type of rock is made from the lava of a volcano. Deep inside the earth, rocks are melted and become magma. When magma comes out of the volcano, it is called lava. If the lava cools quickly, it will form a rock with tiny holes and gas bubbles in it.

Can you think of a place where this type of rock can be found?



Sedimentary rocks are hardened sediment with sandy or clay-like layers. May also consist of layers of shells, pebbles and other materials. Slowly, the sediment gathers up layers. Over time it turns into rock! Fossels are usually found in this type of rock.

Can you think of a place where this type of rock can be found?



Metamorphic rocks are tough, with straight or curved layers (foliation) of light and dark minerals; they come in various colours. They are often glittery with mica. This type of rock is made beneath the surface of the earth. It has ribbon-like layers, caused by heat.

Can you think of a place where this type of rock can be found?

TE PANE O MATAOHO - MANGERE MOUNTAIN

WORD SEARCH FOR OUR VOLCANO

A D C R U S **TUFF RING GASES** Т D R Ε Т E E **FIREFOUNTAINING EXPLOSION** Ε G ASH LAVA FLOW Α Q Z M Α S S W 0 К S H D Т RIM **MAGMA** Н T F 0 S **PAHOEHOE ERUPTION** R Н N D G Ν Ε U G J ı Ε **DUST CRATER** В Q T G E R R T S N C Z Ν **CONES** N M Ε S G R **ACTIVE VENTS** X Ε T X G T **RIBBON THOLOID** Н V G 0 К В S M **LENSE** LIQUID ROCK Υ Н Ν 0 Q 0 Ε U R T Υ U 0 P L К **BASALT** E В S C 0 N E S G J **SUMMIT** J Z N D **SCORIA** S Ε В В T S G Α N К **PRESSURE DORMANT** Х **FIELD** W **IGNEOUS EXTINCT** R E C Α T C Α 0 I C Α **MOLTEN** Υ L **BREACH** Ε U Н Q Ε R Ν M Т D 0 R M N ı **BREAD CRUST** S 0 Н U E N ı W M **SPINDLE CHAMBER LAVABOMB** L S D M R C Н Α R D Α **COWPAT** M M Ν Α U G S E S P В E R R E Н R T Ε Ε P E S Α E R D 0 Z L 1 Q U D R 0 C E В S C 0 R Α E Ν Q W R 0 D G D Υ ٧ 0 R К F K Υ T 0 U D Н M D E D R E M Ε G G R L Α Ν Α K T T



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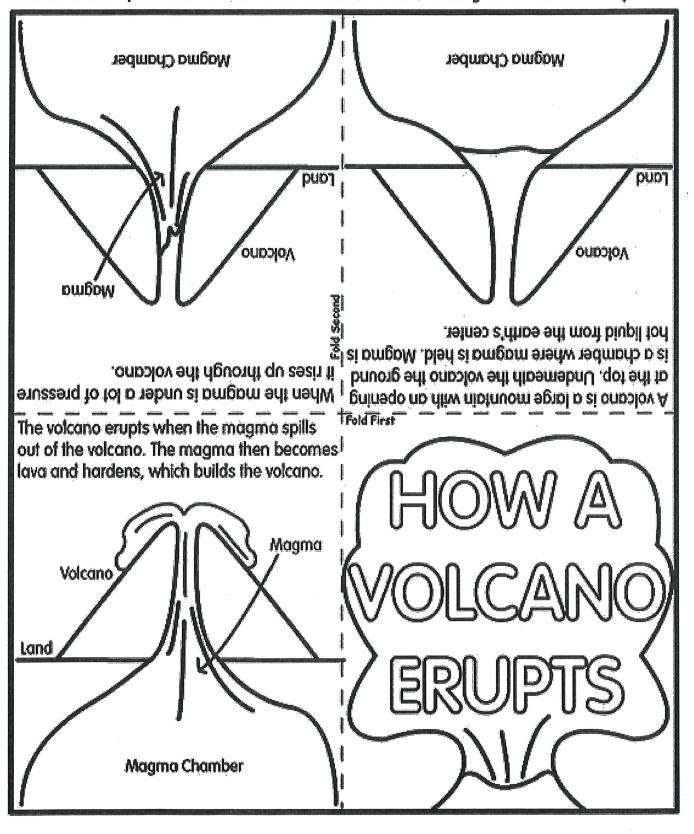
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VOLCANO MINI BOOK Decorate with Crayolo® Colored Pencils. Cut out the book and fold along the dotted lines. Staple shut.



Get set to explore one of South America's most exciting sights - Ecuador's Avenue Of The Volcanoes...

just ordinary mountains. You're travelling along a 400km valley flowing from the southern to the northern Andes mountain range – known as Ecuador's Avenue Of The Volcanoes! Huge mountains dominate the landscape. As you approach on the rocky road, they loom ever larger. A sudden rumble stops you in your tracks. You look to the peaks and realise these aren't

Top of the peaks

of the many mega-high peaks in the Avenue Of The Volcanoes. Cotopaxi – the world's highest volcano at 5,897m-tall – is just one

of snow. And a bit further down is Quilotoa, which at first may holding up the moon!" says volcano expert, Thor Thordarson.

Down the Avenue is the Chimborazo volcano, which in the because the icy glacier at the very top makes it look like it's Indian language of the local Quechua people means mountain "Its name means smooth neck of the moon; perhaps

look like any volcano, but at the summit you'll find a huge, 250m-deep lake in its crater! water is very c-c-cold!" says Thor. but you wouldn't want to swim in it, as the "This emerald-green lake may look pretty,





Colombia, Peru and the Pacific Ocean. that borders with American country



family of volcanoes, complete with mum, dad, a child and a grandparent...
According to folklore, two mountains - El Altar, which means 'Lord of All The Mountains', and Carihuairazo, meaning 'Man Of Wind And Ice' - battled with Taita ('Father') Cotopaxi,

erupted for centuries!
"Mama Tungurahua and Taita Cotopaxi's
"family includes the two highest peaks on the
Pichincha volcano – Guagua, meaning 'Child',
Pichincha volcano – Guagua, meaning 'Child', ind Rucu, 'Old Person," says Clive, "Like most



lived up to this name! In the past 12 years, Mama has had four major volcanic eruptions, starting in 1999 when 25,000 people had to be evacuated from the nearby town of Baños and the surrounding area.

"Scientists are keeping a close eye on all the volcanoes in the Avenue, to make sure that if Mama Tungurahua is also known as 'Throat Of Fire' – and has certainly

any of them do erupt, people are evacuated in plenty of time, says Thor. In fact, they were put to the test as recently as December, when the volcano had a minor eruption. This Mama certainly has a habit of blowing her top!











