

FOSILS

5

The fossil pit in front of you contains the model skeleton of a Mosasaur – a prehistoric reptile that lived in the seas about 85 million years ago. Try to uncover the following parts of the Mosasaur skeleton:

Vertebrae (backbone)
Skull
Teeth
Flippers
Ribs

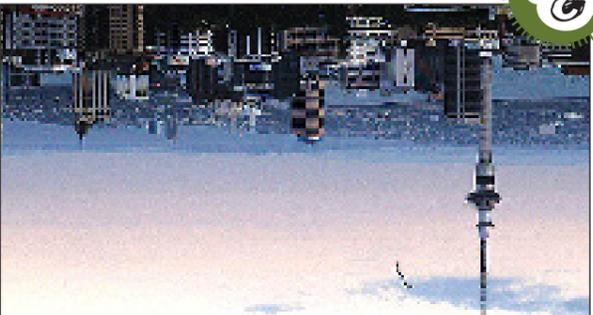
Look at the walls around the fossil pit. Stuck in them are other smaller fossils from the ocean. On the back of this sheet, make a rubbing of one or more of the smaller fossils.



THREE KINGS

4

There are at least 48 extinct volcanoes in Auckland. Redraw this picture showing a new volcano erupting in Auckland.





ASH LAYERS

3

Fill in the age of each layer of ash and the volcano that produced it.



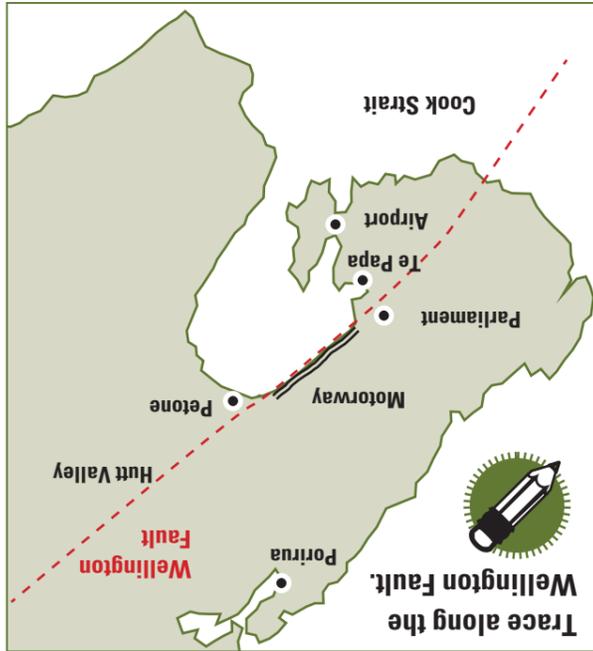
Why is the youngest layer on top? Which of the five eruptions that produced this ash do you think was biggest? Why?




WELLINGTON FAULT

2

Trace along the Wellington Fault.



Can you mark your house or where you are staying in Wellington?

FOLD

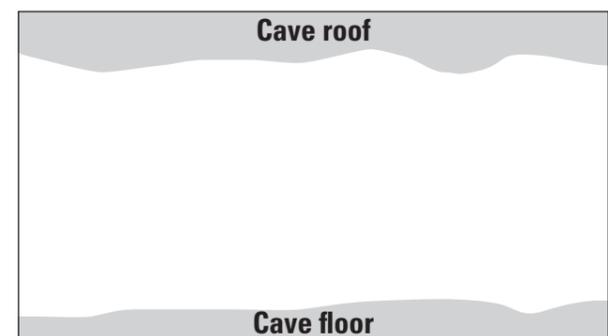
CAVE

What type of rock are most caves in New Zealand made from? _____

Water is the driving force behind the creation of caves. The beautiful features are also a result of water.



Draw and label the following features in the cave: stalagmite, stalactite, column, helictite



6

OLDEST ROCKS



Find these rocks and then write down how old each one is.

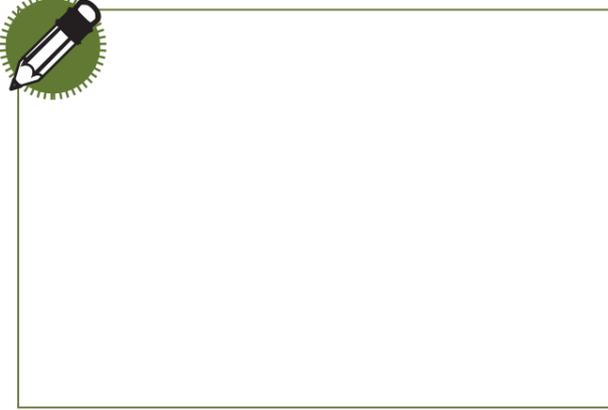
- Cobb Valley talc magnetite schist _____
- Collins Valley serpentinite _____
- Waingaro schist _____
- Mt Campbell gabbro _____
- Charleston gneiss _____
- Red Hills harzburgite _____
- Mt Burnett dolomite _____
- Tākaka marble _____
- Cape Foulwind granite _____

- Waingaro schist is one of the oldest rocks in New Zealand.
- The oldest rocks in the world are over 4 billion (4,000,000,000) years old!

7

GREYWACKE WALL

Sketch the greywacke wall in the space below.



How do you think the rocks became folded to look the way they do?



8

Bush City Geology ACTIVITY TRAIL

Discover the extraordinary geology of New Zealand!

Dig, sketch, and investigate to find out all about the rocks and landscapes of this amazing country. As you walk through *Bush City*, you will travel through 500 million years of geological history.

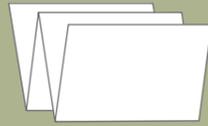
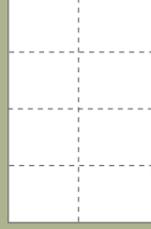
ACTIVITY KEY



FOSSIL RUBBINGS

Use this space to make rubbings of some of the fossils in the walls around the fossil pit.

Fold A3 sheet into booklet



TE PAPA

