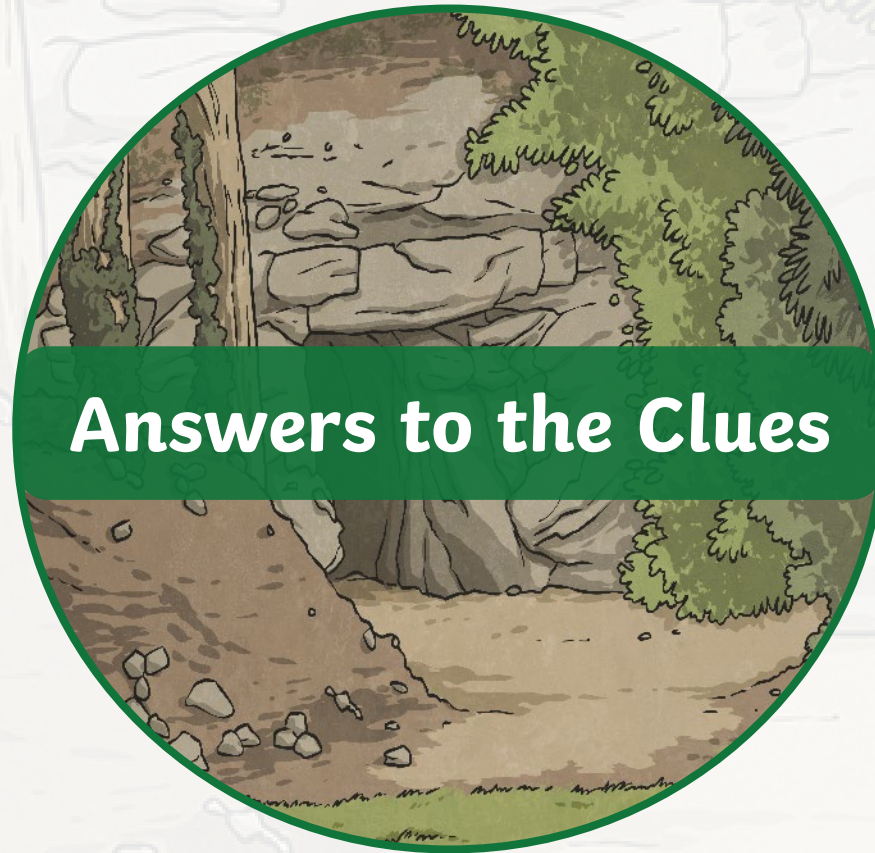


Escape the Cave



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Answers to the Clues

Escape the Cave – Clue 1

Sort these rocks into natural and man-made.

Man-made



concrete



brick

Natural



sandstone



marble



obsidian



slate



marble



limestone



granite



chalk

Concrete and brick are man-made rocks.

The **first** digit of the security code is two.



2

Escape the Cave – Clue 2

How many of these are real types of natural rock?

noxious	caption	metamorphic
igneous	verdant	adhesive
brawny	sedimentary	corrod

Metamorphic, igneous and sedimentary are natural types of rock.

The **second** digit of the security code is three.



3

Escape the Cave – Clue 3

Read the clues and write the answer with one letter in each box. The letters in the green boxes spell the next number.

Type of natural rock formed from magma or lava.

i	g	n	e	o	u	s
---	---	---	---	---	---	---

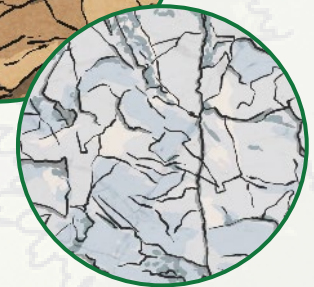
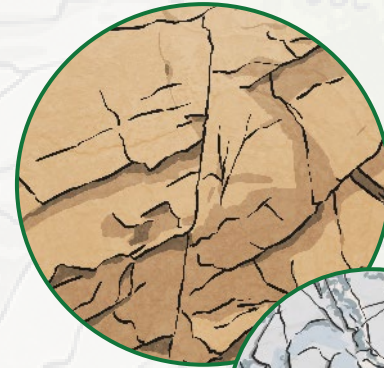
Type of natural rock formed under the sea.

s	e	d	i	m	e	n	t	a	r	y
---	---	---	---	---	---	---	---	---	---	---

Natural rocks that change due to being near lava.

m	e	t	a	m	o	r	p	h	i	c
---	---	---	---	---	---	---	---	---	---	---

The letters spell out the word 'one'.



The **third** digit of the security code is one.



1

Escape the Cave – Clue 4

These are the steps of how a fossil is formed but they are in the wrong order.

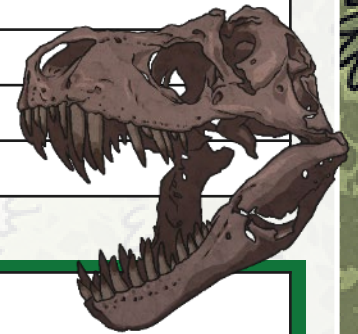
Over thousands of years, sediment forms over the bones and forms a hard rock.

More layers of rock cover the dead animal until only its bones are left.

Eventually, the fossil can be seen.

In some places, the sea recedes (goes back).

An animal dies and ends up in the sea covered by a layer of sediment.



Correct order

An animal dies and ends up in the sea covered by a layer of sediment.

Over thousands of years, sediment forms over the bones and forms a hard rock.

More layers of rock cover the dead animal until only its bones are left.

In some places, the sea recedes (goes back).

Eventually, the fossil can be seen.

The stage when the sea recedes is the fourth stage.

The **fourth** digit of the security code is four.



4

Escape the Cave – Clue 5



Soil is made from how many of these things?

air	plastic	water
metal	organic matter	glass
minerals	nylon	leather

Soil is made from air, water, organic matter and minerals.



The **fifth** digit of the security code is four.



4

Escape the Cave – Clue 6

Read these sentences about properties of rocks. Some are true statements and some are false.

	True	False
Permeable rocks allow water to pass through them.	<input checked="" type="checkbox"/>	<input type="checkbox"/>
Durable rocks can be broken down easily by weathering.	<input type="checkbox"/>	<input checked="" type="checkbox"/>
Density measures how bulky rocks are. High-density rocks sink; low-density rocks float.	<input checked="" type="checkbox"/>	<input type="checkbox"/>
You can test the hardness of rocks by seeing if they will scratch glass.	<input checked="" type="checkbox"/>	<input type="checkbox"/>

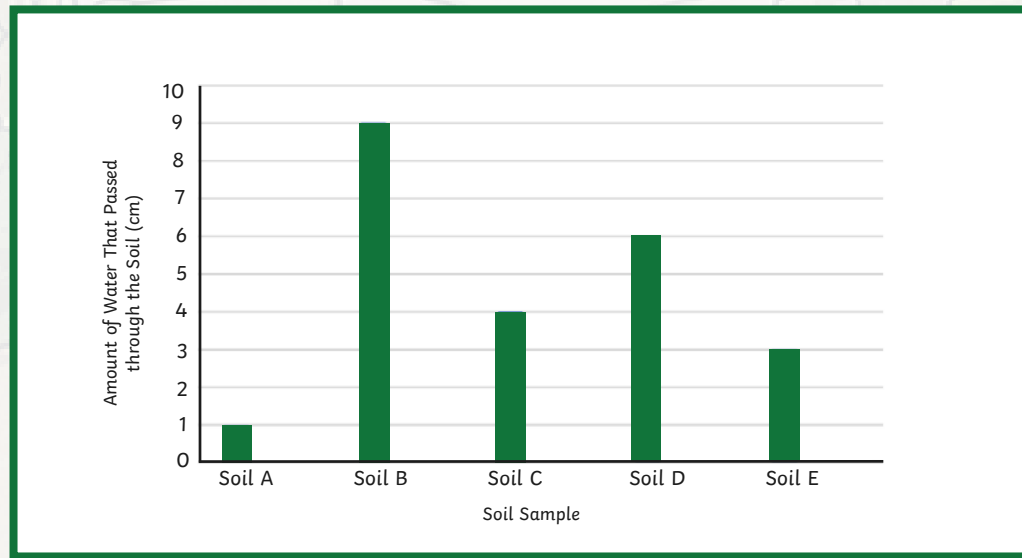
The **sixth** digit of the security code is one.



1

Escape the Cave – Clue 7

Class 3 did an experiment to test the permeability of different soils. They put their results in a bar chart.



Soil B was the most permeable and let 9cm of water through. Soil A was the least permeable and let 1cm of water through. $9 - 1 = 8$

The **seventh** digit of the security code is eight.



8

Escape the Cave – Clue 8

Read the clues about layers of soils.

This layer is made of a solid layer of rock.

bed rock

The middle layer of soil.

sub soil

The thinnest layer where most plants and animals live.

top soil

$$3 + 3 + 3 = 9$$

The **eighth** digit of the security code is nine.



9

Escape the Cave

Now you've solved all the clues, it's time to enter the code into the phone and escape the cave!

Digit 1	Digit 2	Digit 3	Digit 4	Digit 5	Digit 6	Digit 7	Digit 8
2	3	1	4	4	1	8	9





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