

Clue for Digit 1

Sort these rocks into natural and man-made.



concrete



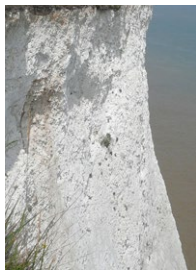
marble



granite



sandstone



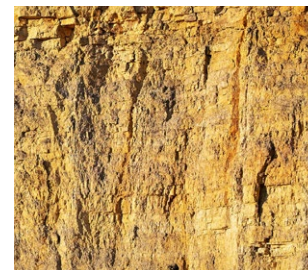
chalk



brick



slate



limestone



obsidian

The number of man-made rocks is the first digit of the security code.

Clue for Digit 2



How many of these are real types of natural rock?

noxious	caption	metamorphic
igneous	verdant	adhesive
brawny	sedimentary	corrod

The number of real types of natural rock is the second digit of the security code.

Clue for Digit 3

Read the clues and write the answer with one letter in each box.

Type of natural rock formed from magma or lava.

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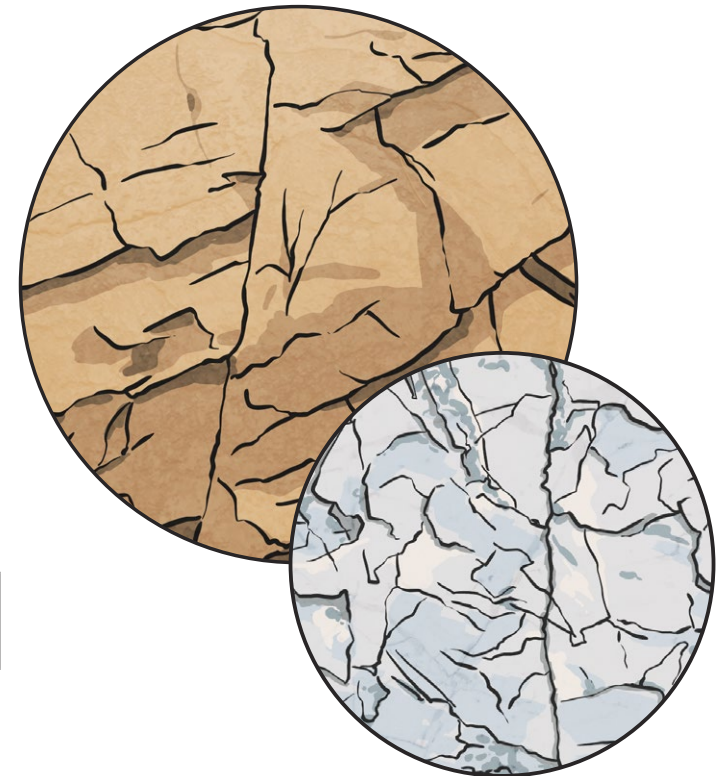
Type of natural rock formed under the sea.

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Natural rocks that change due to being near lava.

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The letters in the green boxes spell the third digit of the security code.



Clue for Digit 4

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

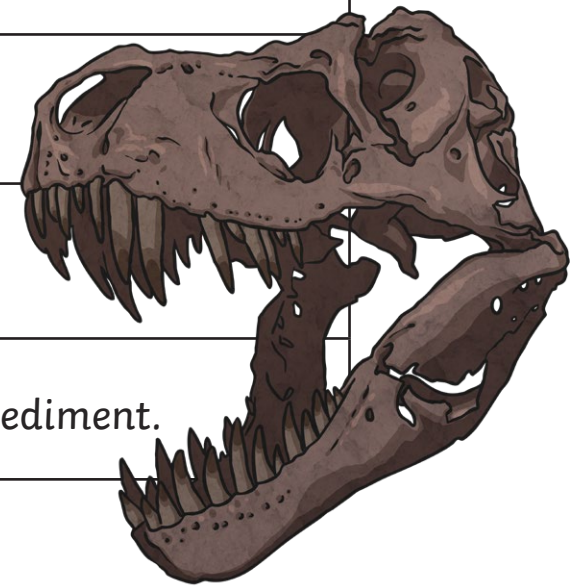
Over thousands of years, sediment forms over the bones and forms a hard rock.

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).

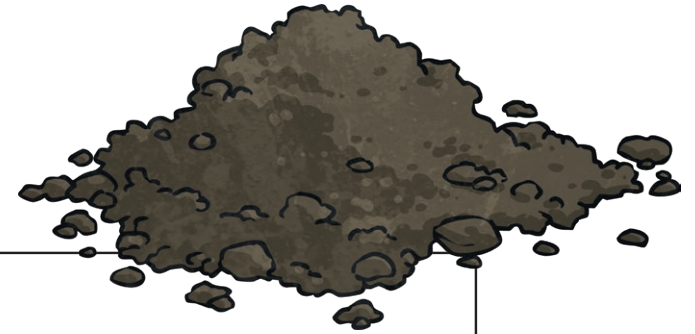
An animal dies and ends up in the sea covered by a layer of sediment.



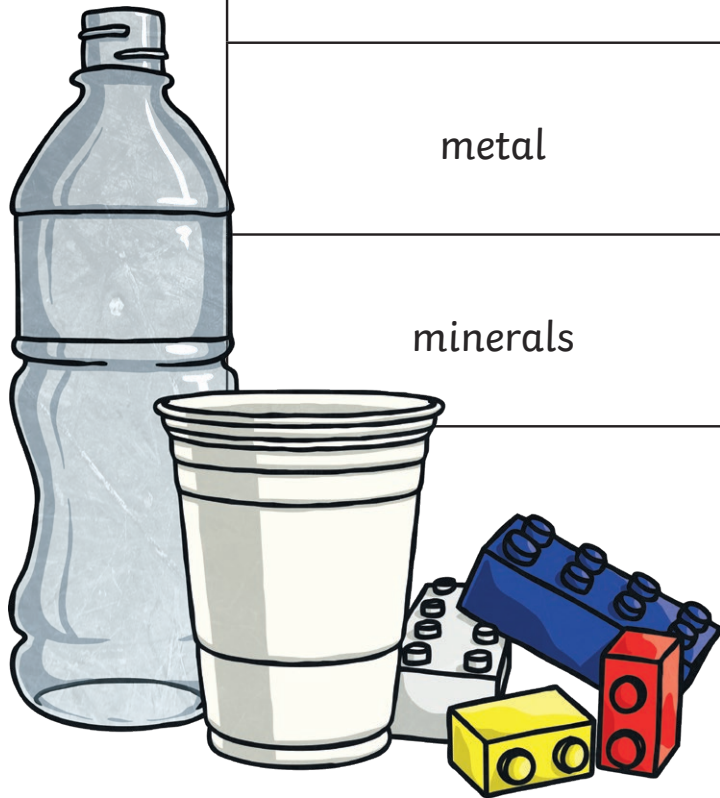
Put the stages in the right order. The new position of the step which says, 'In some places, the sea recedes (goes back).' is the fourth digit of the security code.

Clue for Digit 5

Soil is made from how many of these things?



air	plastic	water
metal	organic matter	glass
minerals	nylon	leather



The number of things soil is made from is the fifth digit of the security code.

Clue for Digit 6

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

Permeable rocks allow water to pass through them.

Durable rocks can be broken down easily by weathering.

Density measures how bulky rocks are. High-density rocks sink; low-density rocks float.

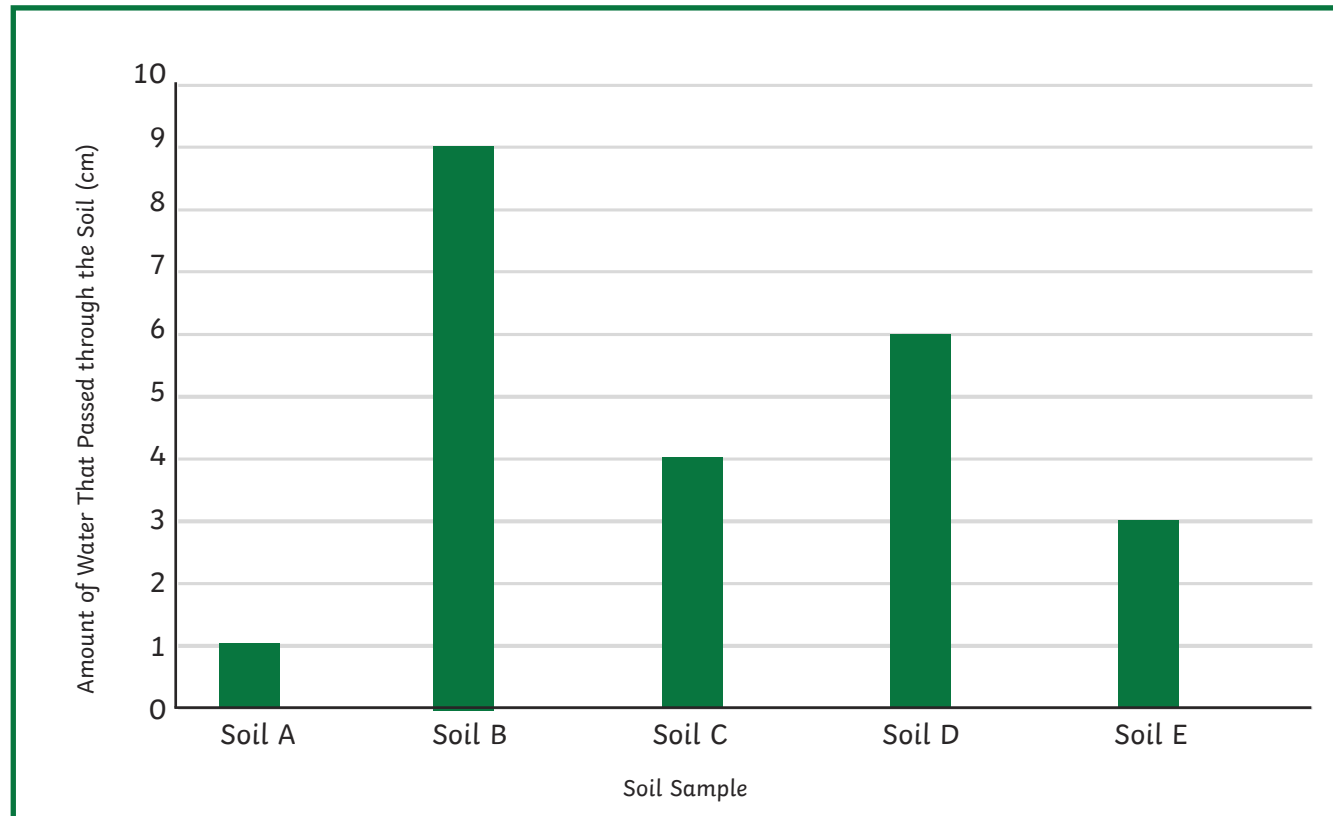
You can test the hardness of rocks by seeing if they will scratch glass.



The number of false statements is the sixth digit of the security code.

Clue for Digit 7

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



The difference between the most permeable and least permeable soil is the seventh digit of the security code.

Clue for Digit 8

Read the clues about layers of soils.

This layer is made of a solid layer of rock.

_____ rock

The middle layer of soil.

_____ soil

The thinnest layer where most plants and animals live.

_____ soil



Add together the number of letters you have written. Your answer is the eighth digit of the security code.