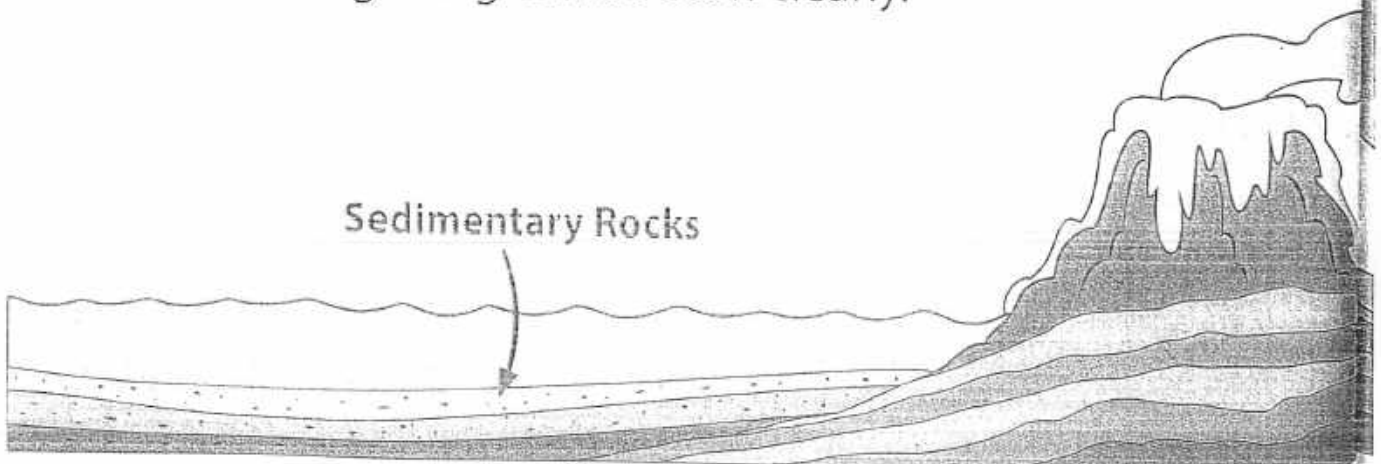


1 ON ROCKY GROUND

Most people think rocks are really boring! But if you dig deeper, you can find some fascinating facts about them. Rock forms Earth's crust. Without it, no one would be able to live on Earth – our feet would burn from the molten lava that comes from our planet's inner layers! Rock is made up of tiny particles that are tightly packed together. It takes millions of years and some extreme conditions to form them.

There are three different types of rock. Let's explore sedimentary rock first. These rocks are absolutely ancient. They are formed over millions of years, when sand, stones, animal skeletons and dead plants form layers. The layers are then pushed together under the huge pressure of the oceans and rivers.

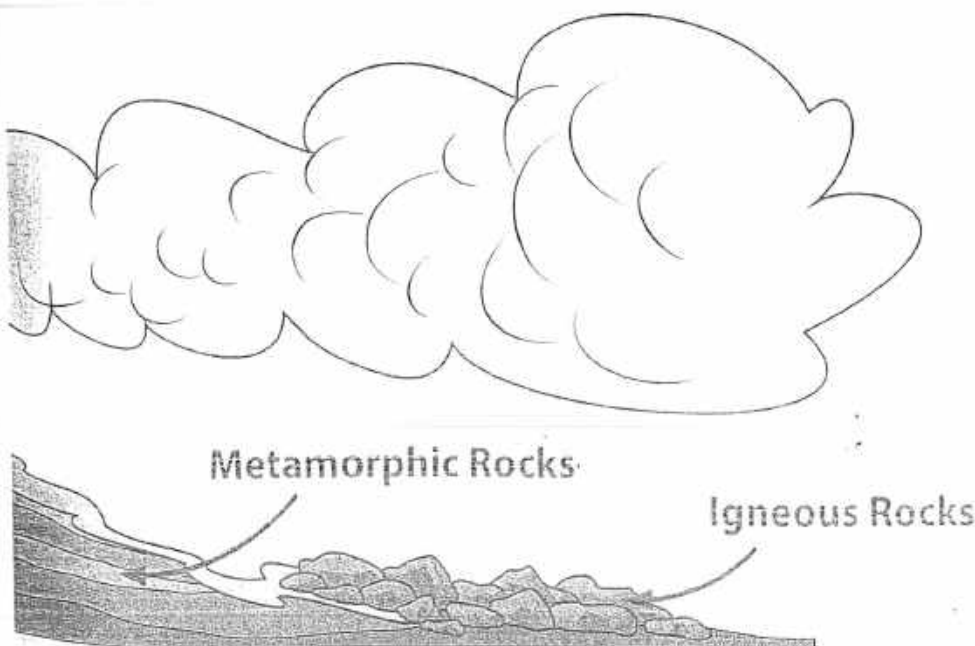
Coal, chalk and sandstone are all sedimentary rocks. Sedimentary rock is also where we can find fossils, because its layers include dead animals and plants. Fossils are formed when a whole or part of a plant or body isn't crushed to bits before other layers cover and protect it. This means that the form of the living thing can be seen clearly.



Next, let's look at igneous rock. It would be safe to say that this rock was hot stuff! Igneous rock is formed when molten lava from volcanoes cools. It is extremely hard and strong. Granite is an igneous rock. Because of its hardness, it is difficult to scratch or damage. It is often used to create work surfaces in kitchens or striking-looking floors. Igneous rock can be created whenever a volcano erupts, so a lot of it is quite new.

Last but not least, we'll explore metamorphic rocks. This rock is one that has changed over time. Did you know rocks could do that? It changes in situations of extreme heat or pressure. Slate and marble are metamorphic rocks. Even though they are hard, acids can damage them easily – even lemon juice can cause damage to the surface of a metamorphic rock.

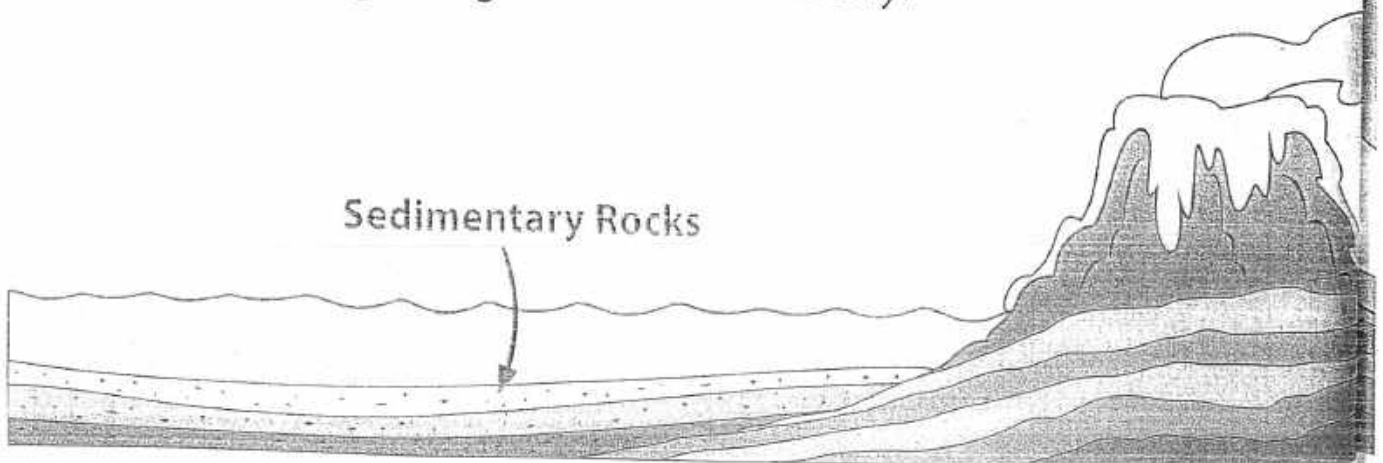
Now you know these fantastic facts about rocks, see if you can spot the different types.



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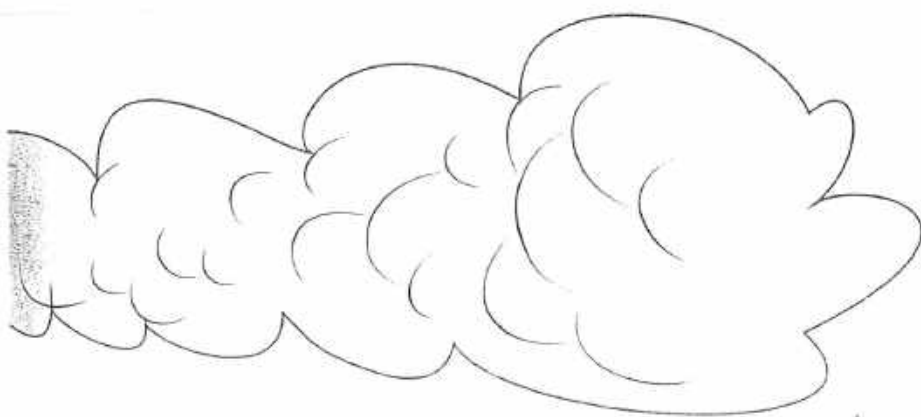
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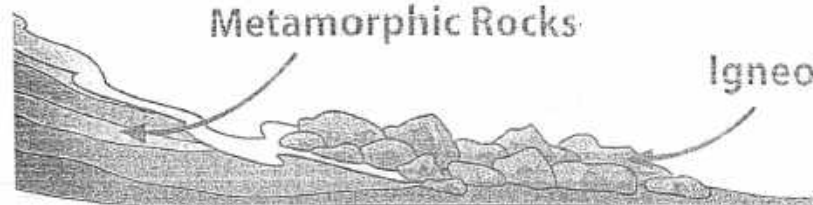
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Now you know these fantastic facts about rocks, see if you can spot the different types.



Metamorphic Rocks

Igneous Rocks



FILL IN THE GAP



Read the sentences and choose the correct word to fill in the gap. Look back at paragraph 1 in *On rocky ground* to find the correct answer.

Most people think rocks are really _____!

But if you dig deeper you can find some _____ facts about them.

Rock forms Earth's _____.

Without it, no one would be able to live on Earth – our feet would burn from the molten _____ that comes from our planet's inner layers!

Rock is made up of tiny _____ that are tightly packed together.

Look back at paragraphs 2 and 3 in *On rocky ground* to find the correct answer.

They are formed over millions of years, when sand, stones, _____ and dead plants form layers.

Sedimentary rock is also where we can find _____, because its layers include dead animals and plants.

Coal, chalk and sandstone are all _____ rocks.

Look back at paragraph 4 in *On rocky ground* to find the correct answer.

Next, let's look at _____ rock.

Igneous rock is formed when molten lava from volcanoes _____.

It is extremely hard and strong. _____ is an igneous rock.

Igneous rock can be created whenever a volcano _____, so a lot of it is quite new.



MATCHING

Draw a line with a ruler to match the information. One has already been done for you.

molten lava						formed when lava cools
sedimentary rocks						Earth's inner layer
igneous rock						rocks that have changed
metamorphic rock						formed millions of years ago

Draw a line with a ruler to match the information.

can be damaged by acids						sedimentary rocks
very hard to scratch						really boring
fossils formed in these rocks						igneous rocks
people think rocks are						metamorphic rocks

Draw a line with a ruler to match the information.

granite						pressure of oceans
slate and marble						sedimentary rocks
sandstone						metamorphic rock
pushed together by						igneous rock

 **FIND AND COPY**



Look at paragraph 1. Find and copy a word that suggests that most people are not interested in rocks.

Look at the paragraph beginning 'There are three different types...'. Find and copy a word that suggests that rocks are extremely old.

Look at the paragraph beginning 'Next, let's look at...'. Find and copy a word that suggests that the volcano suddenly became active.

Look at the paragraph beginning 'Last but not least...'. Find and copy a word that suggests that metamorphic rocks can be harmed or changed.



© MULTIPLE CHOICE

Circle the correct answer to the following questions.

Which of the following is a sedimentary rock?

chalk

marble

slate

granite

Which of the following is a metamorphic rock?

chalk

marble

sandstone

granite

Which of the following is an igneous rock?

chalk

marble

slate

granite

Which rock type is created every time a volcano erupts?

igneous

sedimentary

metamorphic

fossils

Which rock type is created over millions of years?

igneous

sedimentary

metamorphic

fossils

Which rock type is very difficult to scratch?

igneous

sedimentary

metamorphic

fossils

Which rock type is damaged by lemon juice and other acids?

igneous

sedimentary

metamorphic

fossils

What do most people think about rocks?

they're fun

they're boring

they're old

they're round



123 SEQUENCING

Look at the sentences below. Write the numbers 1 to 4 to show the order the words occur in the sentences.

They are formed over millions of years, when sand, stones, animal skeletons and dead plants form layers. The layers are then pushed together under the huge pressure of the oceans and rivers.

millions	sand	pressure	skeletons

Look at the first paragraph in *On rocky ground*. Number the statements from 1 to 5 to show the order they occur in the text.

But if you dig deeper you can find some fascinating facts about them.

Rock forms Earth's crust.

Most people think rocks are really boring!

Rock is made up of tiny particles that are tightly packed together.

Without it, no one would be able to live on Earth – our feet would burn from the molten lava that comes from our planet's inner layers!

Look at *On rocky ground*. Number the statements from 1 to 5 to show the order they occur in the text. Look at the first line of each paragraph to help you.

Next, let's look at igneous rock.

Most people think rocks are really boring!

Now you know these fantastic facts about rocks, see if you can spot the different types.

There are three different types of rock.

Last but not least, we'll explore metamorphic rocks.



UNDERLINE OR HIGHLIGHT

Read the paragraphs below and then follow the instructions.

Let's explore sedimentary rock first. These rocks are absolutely ancient. They are formed over millions of years, when sand, stones, animal skeletons and dead plants form layers. The layers are then pushed together under the huge pressure of the oceans and rivers.

Coal, chalk and sandstone are all sedimentary rocks. Sedimentary rock is also where we can find fossils, because its layers include dead animals and plants. Fossils are formed when a whole or part of a plant or body isn't crushed to bits before other layers cover and protect it. This means that the form of the living thing can be seen clearly.

Underline or highlight a word that means to look at something to learn more about it.

Underline or highlight a word that means continuous physical force.

Underline or highlight a word that means the remains of a prehistoric plant or animal.

Underline or highlight a word that means a bone framework inside a body.

Underline or highlight a word that tells us the type of rock that chalk is made from.



Label the stone with the correct rock type.

Coal	
Slate	
Sandstone	
Granite	
Marble	
Chalk	

Label the information with the correct rock type.

Formed over millions of years	
Formed from molten lava	
Changed by extreme heat and pressure	
Damaged easily by acids	
Fossils can be found in them	
Often used in kitchens	

Draw the statement in the boxes. Add your own labels to your drawing.

igneous rock	sedimentary rock
metamorphic rock	volcano

TRUE OR FALSE



Read the sentences. Put a tick in the correct box to show which sentences are *true* and which are *false*.

Chalk is a sedimentary rock.

True False

Igneous rock changes under extreme heat and pressure.

True False

Slate is a metamorphic rock.

True False

Coal is used to create kitchens.

True False

Rock forms the Earth's crust.

True False

Sedimentary rocks are formed over millions of years.

True False

Sedimentary rocks often contain fossils.

True False

Igneous rock is very hard to scratch.

True False

Lemon juice can cause damage to metamorphic rocks.

True False

Rock is made up of tiny particles.

True False

Igneous rock is extremely hard.

True False

Marble is a sedimentary rock.

True False

There are only two different types of rock.

True False

Sedimentary rocks contain parts of animal skeletons.

True False

Granite can be easily scratched.

True False