

Learning & Discovery in the National Park

Discover, explore, enjoy

learning.discovery@peakdistrict.gov.uk



**PEAK
DISTRICT
NATIONAL
PARK**



Learning & Discovery in the National Park
Discover, explore, enjoy
learning.discovery@peakdistrict.gov.uk



What's so special about rocks ?????



Learning & Discovery in the National Park

Discover, explore, enjoy

learning.discovery@peakdistrict.gov.uk



**PEAK
DISTRICT
NATIONAL
PARK**

So why are rocks important?



Learning & Discovery in the National Park

Discover, explore, enjoy

learning.discovery@peakdistrict.gov.uk



PEAK
DISTRICT
NATIONAL
PARK

Rocks can be used to
BUILD walls, buildings,
bridges.....all sorts of
things.

So why are rocks important?

Learning & Discovery in the National Park

Discover, explore, enjoy

learning.discovery@peakdistrict.gov.uk



PEAK
DISTRICT
NATIONAL
PARK

We use materials that
come from rocks such as
METALS.

Rocks can be used to
BUILD walls, buildings,
bridges.....all sorts of
things.

So why are rocks important?

We use materials that
come from rocks such as
METALS.

Rocks can be used to
BUILD walls, buildings,
bridges.....all sorts of
things.

So why are rocks important?

The type of SOIL on
the ground is
determined by the
rocks underneath it.

We use materials that come from rocks such as METALS.

Rocks can be used to BUILD walls, buildings, bridges.....all sorts of things.

So why are rocks important?

The type of SOIL on the ground is determined by the rocks underneath it.

The whole PLANET is made of rock. Without rock we wouldn't be standing on anything!!

Learning & Discovery in the National Park

Discover, explore, enjoy

learning.discovery@peakdistrict.gov.uk

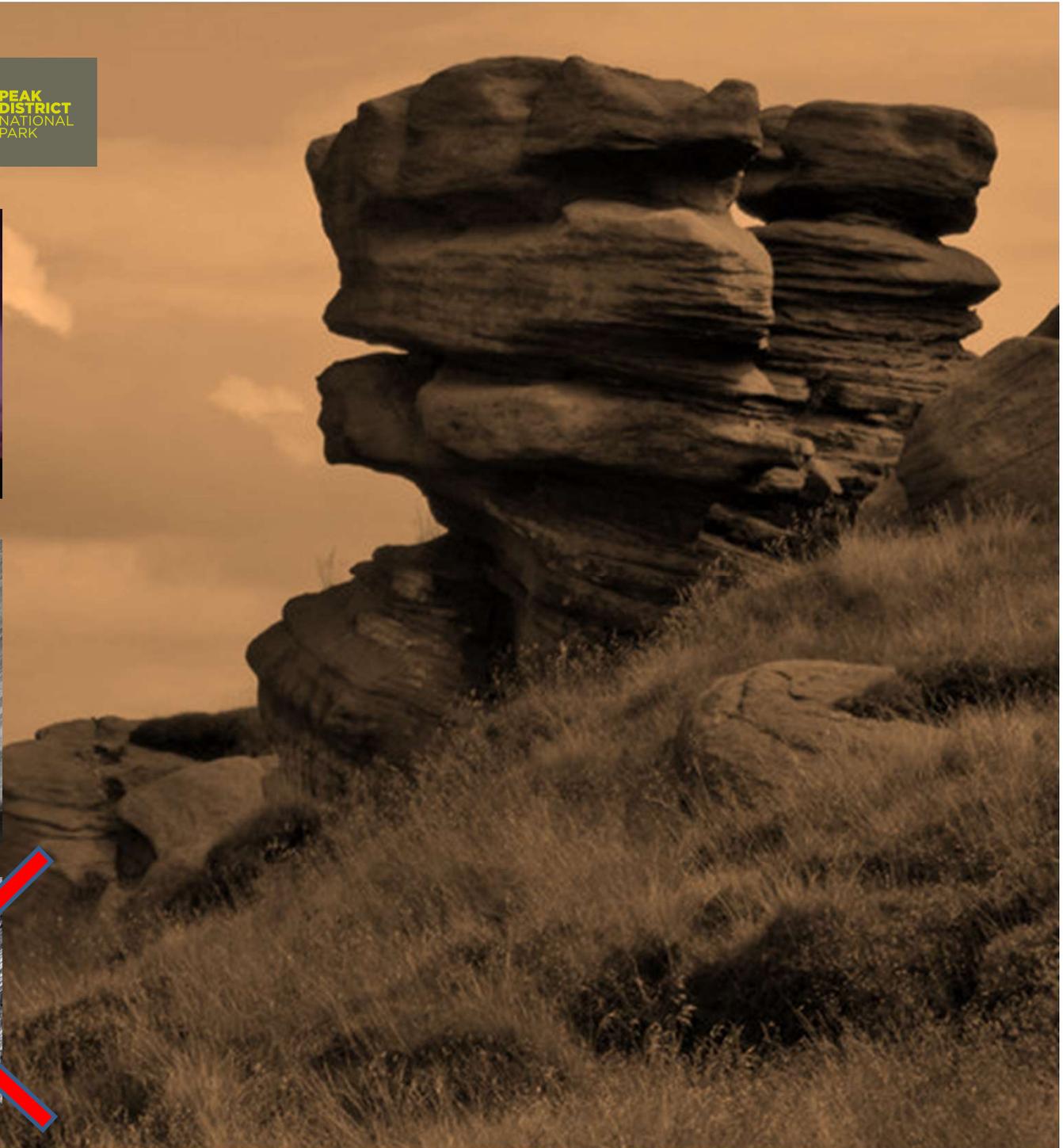


**PEAK
DISTRICT
NATIONAL
PARK**

How are rocks formed?

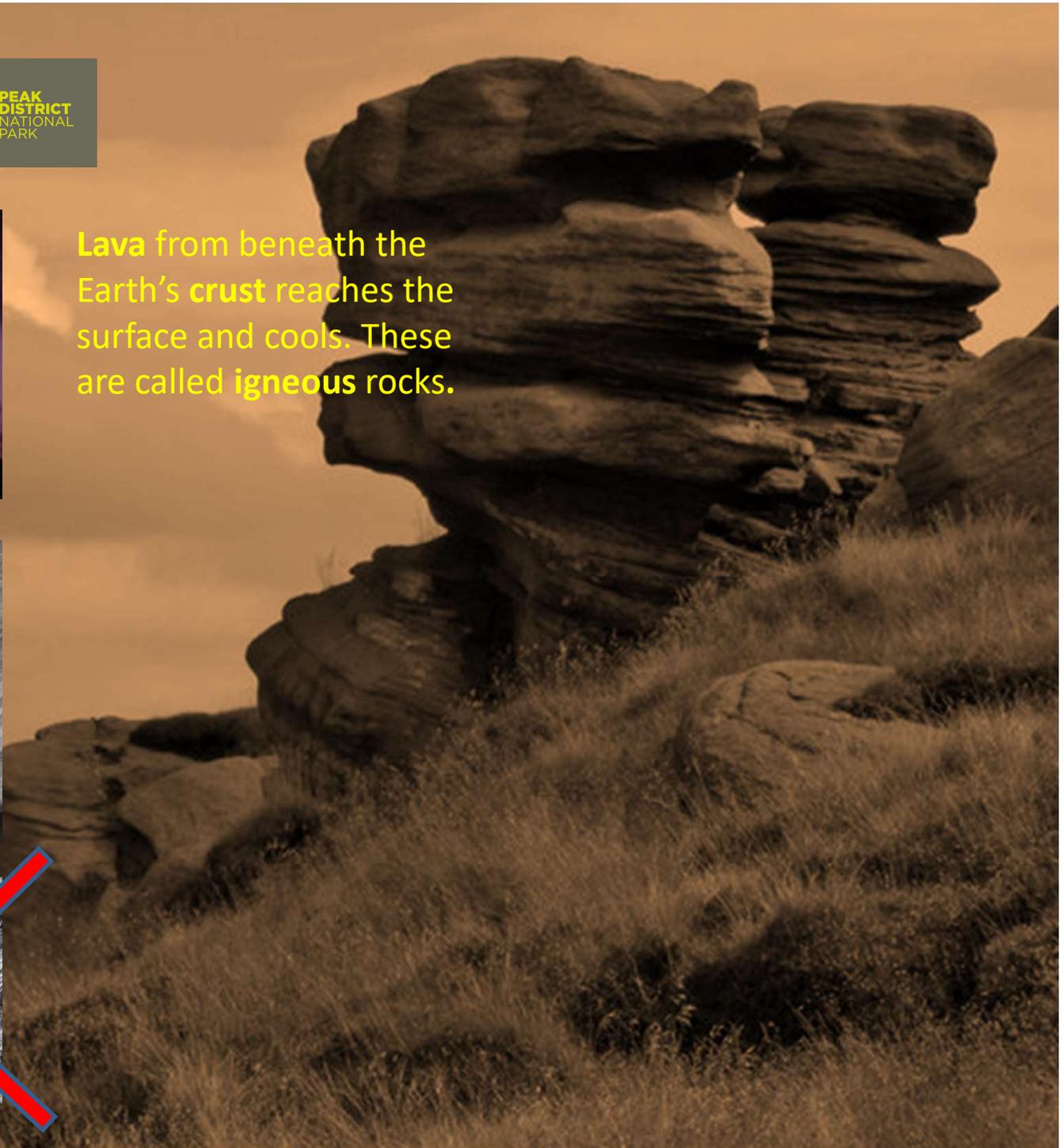


Learning & Discovery in the National Park
Discover, explore, enjoy
learning.discovery@peakdistrict.gov.uk





Lava from beneath the Earth's **crust** reaches the surface and cools. These are called **igneous** rocks.





Lava from beneath the Earth's **crust** reaches the surface and cools. These are called **igneous** rocks.



Small rock particles or the hard shells of animals form layers. These are called **sedimentary** rocks.





Lava from beneath the Earth's crust reaches the surface and cools. These are called **igneous** rocks.



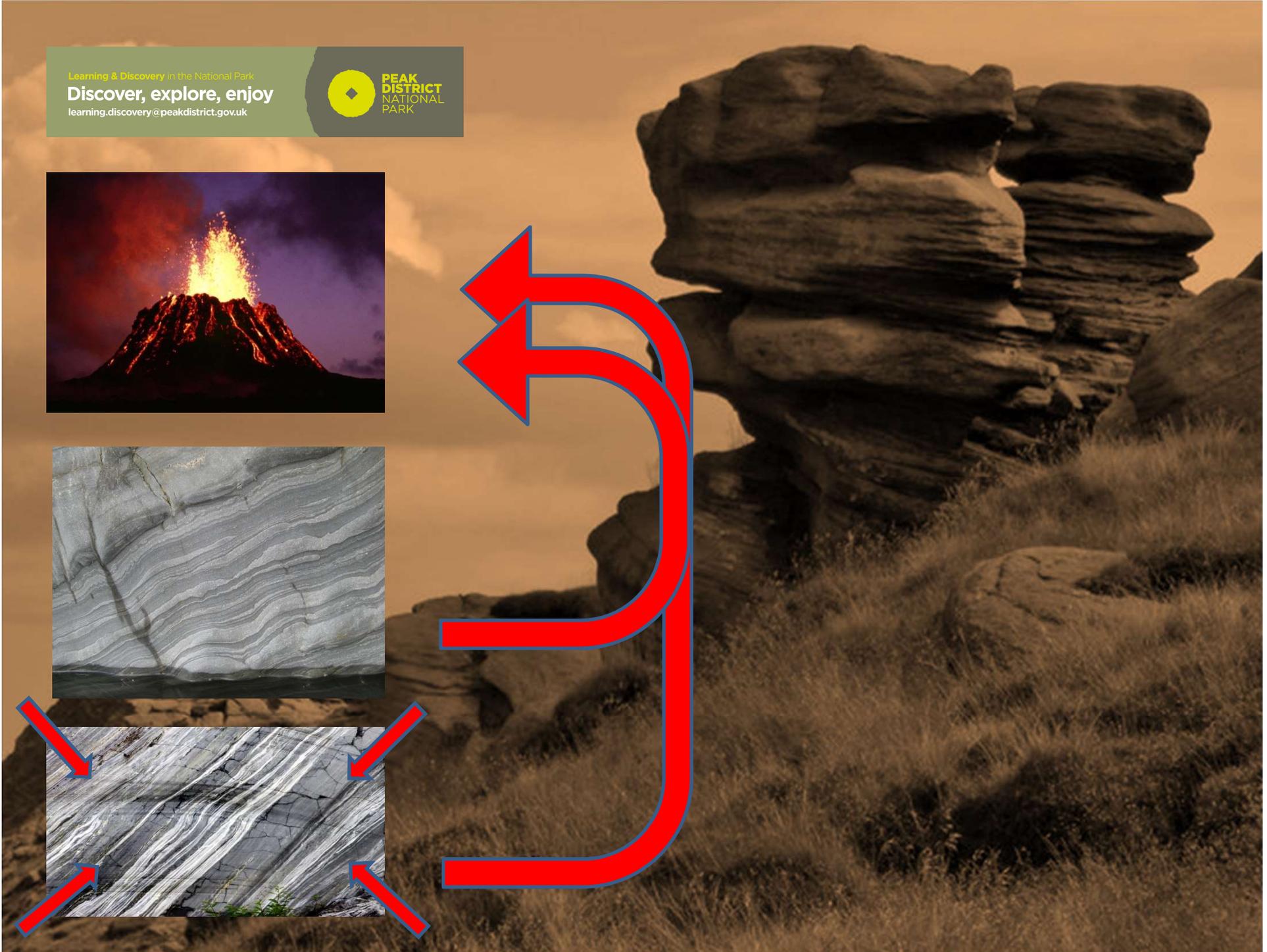
Small rock particles or the hard shells of animals form layers. These are called **sedimentary** rocks.



Pressure and heat change the rocks. These are called **metamorphic** rocks.



Learning & Discovery in the National Park
Discover, explore, enjoy
learning.discovery@peakdistrict.gov.uk





Both sedimentary and metamorphic rocks can be pushed back into the earth's mantle so the rock cycle can begin again.

Learning & Discovery in the National Park

Discover, explore, enjoy

learning.discovery@peakdistrict.gov.uk



Are all rocks the same?



Learning & Discovery in the National Park
Discover, explore, enjoy
learning.discovery@peakdistrict.gov.uk



Are all rocks the same?



Time to get testing!

Learning & Discovery in the National Park

Discover, explore, enjoy

learning.discovery@peakdistrict.gov.uk



PEAK
DISTRICT
NATIONAL
PARK

Are all rocks the same?

Rocks can be all sorts of colours, depending on the minerals within them.

Some, like **marble**, can be used to make attractive sculptures.

Learning & Discovery in the National Park

Discover, explore, enjoy

learning.discovery@peakdistrict.gov.uk



PEAK
DISTRICT
NATIONAL
PARK

Some rocks are **permeable** (water soaks into it) while some are **impermeable**. Other rocks are **porous** – they have holes where the water can flow through, like **limestone**.

Are all rocks the same?

Rocks can be all sorts of colours, depending on the minerals within them.

Some, like **marble**, can be used to make attractive sculptures.

Learning & Discovery in the National Park

Discover, explore, enjoy

learning.discovery@peakdistrict.gov.uk



PEAK
DISTRICT
NATIONAL
PARK

Some rocks are **permeable** (water soaks into it) while some are **impermeable**. Other rocks are **porous** – they have holes where the water can flow through, like **limestone**.

Are all rocks the same?

Rocks can be all sorts of colours, depending on the minerals within them.

Some, like **marble**, can be used to make attractive sculptures.

Some rocks are very hard, like **granite**. Others are very soft, like **talc**.

Learning & Discovery in the National Park

Discover, explore, enjoy

learning.discovery@peakdistrict.gov.uk



PEAK
DISTRICT
NATIONAL
PARK

Some rocks contain layers, grains or **crystals**. Some others may contain **fossils** or metals.

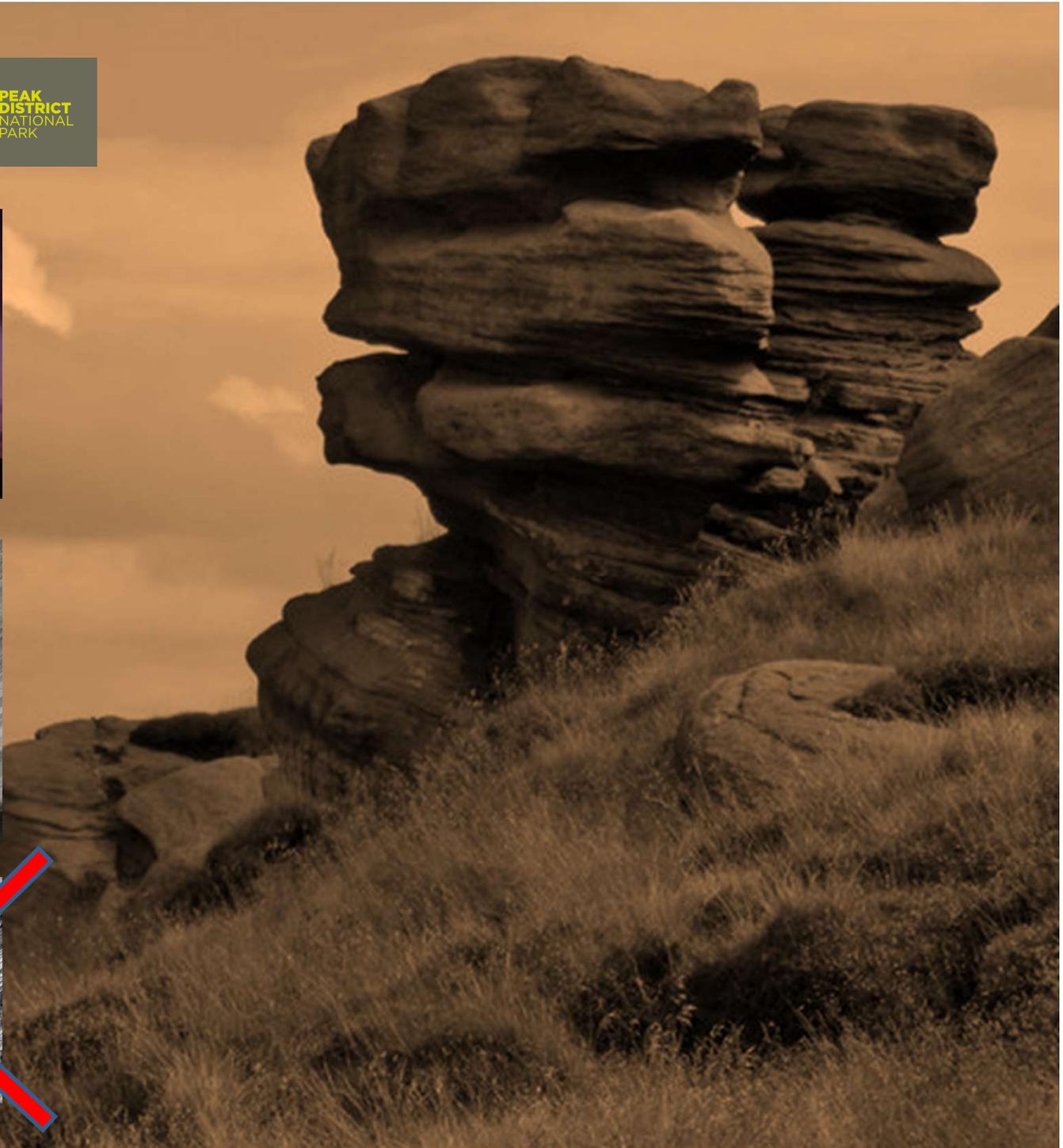
Some rocks are **permeable** (water soaks into it) while some are **impermeable**. Other rocks are **porous** – they have holes where the water can flow through, like **limestone**.

Are all rocks the same?

Rocks can be all sorts of colours, depending on the minerals within them. Some, like **marble**, can be used to make attractive sculptures.

Some rocks are very hard, like **granite**. Others are very soft, like **talc**.

Learning & Discovery in the National Park
Discover, explore, enjoy
learning.discovery@peakdistrict.gov.uk



Learning & Discovery in the National Park
Discover, explore, enjoy
learning.discovery@peakdistrict.gov.uk



What types of rocks will you see in the
Peak District?

