

VEEV ON THE ROCKS?

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WHAT ARE ROCKS?

Rocks are made of grains that fit together. Each grain in the rock is made from a mineral, which is a chemical compound. The grains in a rock can be different colours, shapes and sizes.



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TYPES OF ROCKS

There are three main types of rock:

- Sedimentary,
- Igneous
- and Metamorphic.

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Sedimentary Rocks

Sedimentary rocks contain rounded grains in layers. Examples of sedimentary rock are:

- chalk
- limestone
- sands



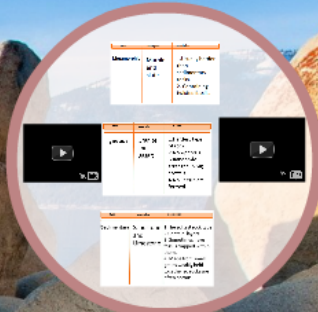
IGNEOUS ROCKS

Granite	Basalt	Obsidian	Quartz
Granite is a common igneous rock. It is made of several different minerals, including quartz, feldspar, and mica.	Basalt is a dark, fine-grained igneous rock. It is made of minerals like plagioclase and pyroxene.	Obsidian is a dark, glassy igneous rock. It is formed from cooled lava that has no time to crystallize.	Quartz is a common mineral found in many types of rocks. It is made of silicon and oxygen.

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METAMORPHIC ROCKS

- Metamorphic rocks are formed from other rocks that are changed because of heat or pressure.
- They have a different texture to other rocks. They are often foliated, which means they have layers or bands of different minerals.
- They are often found in mountain ranges and areas of tectonic activity.
- Sometimes, metamorphic rocks are formed from rocks that were once sedimentary or igneous.




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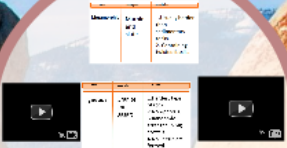
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METAMORPHIC ROCKS

- METAMORPHIC ROCKS ARE FORMED FROM OTHER ROCKS THAT ARE CHANGED BECAUSE OF HEAT OR PRESSURE.
- THEY CAN BE FORMED FROM ANY TYPE OF ROCK, BUT ARE MOST COMMONLY FORMED FROM SEDIMENTARY ROCKS.
- METAMORPHIC ROCKS ARE FORMED BECAUSE OF HEAT AND PRESSURE.
- SOMETIMES, METAMORPHIC ROCKS ARE FORMED BECAUSE OF CHEMICAL REACTIONS.



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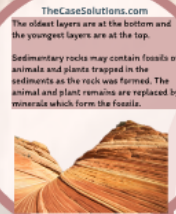
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TheCaseSolutions.com Sedimentary Rocks

Sedimentary rocks contain rounded grains in layers. Examples of sedimentary rock are:

- chalk
- limestone
- sandstone



Examples



HOW IT'S FORMED

- A river carries pieces of broken rock as it flows along.
- When the river reaches a lake or the sea, its load of transported rocks settles to the bottom.
- We say that the rocks are deposited.
- The deposited rocks build up in layers, called sediments.
- This process is called sedimentation.
- The weight of the sediments on top squashes the sediments at the bottom. This is called compaction.
- The water is squeezed out from between the pieces of rock and crystals of different salts form.
- The crystals form a sort of glue that sticks or cements the pieces of rock together. This process is called cementation.
- These processes eventually make a type of rock called sedimentary rock. It may take millions of years for sedimentary rocks to form.
- These are the different processes in order:
• sedimentation → compaction → cementation

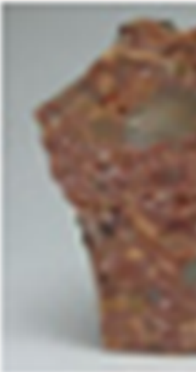


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The oldest layers are at the bottom and the youngest layers are at the top.

Sedimentary rocks may contain fossils of animals and plants trapped in the sediments as the rock was formed. The animal and plant remains are replaced by minerals which form the fossils.

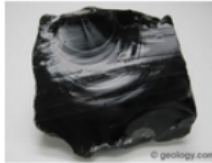


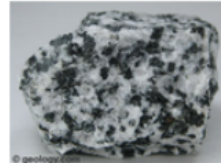


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IGNEOUS ROCKS

Obsidian	Granite	Pumice	Diorite
			
Formed from volcanoes and are extrusive, so they are igneous.	Also from volcanoes and this time it is an intrusive igneous rock.	Pumice is also an extrusive igneous rock that is foliated	An intrusive igneous rock that is non-foliated and is coarse grained.

FORMATION OF IGNEOUS ROCKS

- THE INSIDE OF THE EARTH IS VERY HOT - NOT ENOUGH TO MELT ROCKS. MOLTEN (LIQUID) ROCK FORMS WHEN ROCKS MELT.
- THE MOLTEN ROCK IS CALLED MAGMA.
- WHEN THE MAGMA COOLS AND SOLIDIFIES, A TYPE OF ROCK CALLED IGNEOUS ROCK FORMS.



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WHAT ARE THEY LIKE?

Igneous rocks contain randomly arranged interlocking crystals. The size of the crystals depends on how quickly the molten magma



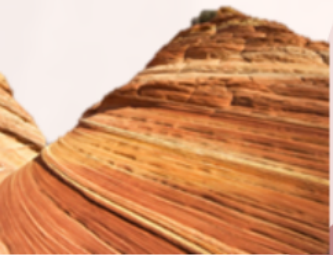
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Sedimentary rock

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thick layers are at the bottom and the thinnest layers are at the top.

Sedimentary rocks may contain fossils of animals and plants trapped in the rock as it was formed. The original animal and plant remains are replaced by minerals which form the fossils.



Examples



Breccia



Chert



Coal



Conglomerate



flint



Iron Ore



Limestone



Oil Shale



Rock Salt



Sandstone



Shale



Siltstone

FORMED

As the rock is pushed along the sea, its load of transported

sediments, called sediments, are pushed together. The weight of the sediments above squashes the sediments at the bottom. The weight between the pieces of rock and

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