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## Interesting facts about metamorphic rocks

Metamorphic rocks are rocks exposed to a lot of heat and a lot of pressure and that makes them change. Most of the changes happen many, many years later. Many of the metamorphic rocks are located on the earth's surface where there is a lot of pressure and heat coming from the magma that is below the surface. Although rocks can be made from the same type of minerals, they become classified according to how they are made and not by what types of minerals they have. Types of metamorphic rocks There are many different types of metamorphic rocks such as: Anthracite Schist Gneiss Marble Slate Quartzite Granulite Anthracite Anthracite is a metamorphic rock that looks very shiny. This is a type of coal and it's high in carbon. When a rock looks shiny, it is also called the sheen of a rock. Marble Marble is an interesting rock because it is a metamorphic rock that was once a sedimentary rock. This rock followed the rocky cycle and because of the sedimentary rock was under so much pressure and heat, it turned the rock into a metamorphic rock. Limestone is the sedimentary rock from which marble is formed. Marble is very durable but can be dissolved if someone puts different types of acid or lemon juice into it. Slate Slate is another metamorphic rock formed by a sedimentary rock. The slate was made of mud which was under a lot of heat and pressure and formed slate. When slate is formed, clay is replaced by mica. Quartzite is once again a metamorphic rock that has changed from sedimentary rock, sandstone. Granulite granulite is a metamorphic rock that has changed from igneous rock, basalt to metamorphic rock due to heat and pressure. Schist Schist is a rock that comes from the board. What does metamorphic mean? The word metamorphic comes from the morph world which means to be changed or transformed. The reason metamorphic means have changed, is because metamorphic rocks are made when other rocks change due to heat or pressure. There has to be a lot of heat and a lot of pressure for that to happen. Metamorphosis When rocks begin to change, this is called metamorphosis. When metamorphosis occurs, rocks that are close to the Earth's surface are changed by magma. Why are metamorphic rocks different? Metamorphic rocks are different because they can not only be formed from igneous and sedimentary rocks; they can also be formed from other metamorphic rocks. When forming a metamorphic rock, it must have a lot of pressure and a lot of heat for a very, very long time. Contact or Thermal Metamorphism When rocks change, this is called contact metamorphism. This happens when pieces of rocks are broken down or when they are changed by the heat of the magma. When the magma rises in the Earth's crust, it's changing all the rocks around it. this happens, there's so much heat forming new rocks. Regional metamorphism When rocks are buried beneath the earth's surface, deep in the Earth, Earth, rocks begin to change. These changes happen from the magma chambers that reach these rocks. Although the rocks are really hot and there is a lot of pressure, the rock will not melt due to pressure. If the rock melted instead of remaining solid, it would form in one of the other two types of rocks both a sedimentary rock and an igneous rock. When there is more pressure, the rocks will change more. If the rock is really deep and is around more heat, it can change even more. A great example of this is that mud can turn into shale if it is under only a little pressure. But when shale is even more under pressure, it turns into slate. When a rock is close to the earth's surface, and is exposed only to a little pressure, it causes the rock to sometimes have different layers and divide easiily. This is called foliation. Leafy rocks When a rock has several layers of grain in them, these rocks are called leafy rocks. Non-leaf rocks Rocks that do not have grain in them are called unfoliar rocks. How do metamorphic rocks get to the surface? There are several ways metamorphic rocks arrive on the Earth's surface such as volcanic activity and erosion. When erosion occurs, it can lift rocks from the ground and bring them to the surface. Metamorphic rocks Made for children: Most of the Earth's crust is composed of metamorphic rocks. The Taj Mahal is a type of marble that is a metamorphic rock. The earth's lower crust is composed of metamorphic rock except for parts of it that have igneous rocks through it. A type of metamorphic rock is called a serpentine. This rock was first an igneous rock called peridot that was exposed to extreme heat and pressure. Slate began as mud at the bottom of the ocean or sea. In Brazil, the coast is made of metamorphic rocks. What did you learn? What is a metamorphic rock? A metamorphic rock is a rock that has changed due to a lot of heat and a lot of pressure. What does the word metamorphic mean? The word metamorphic means to change and rocks that are metamorphic rocks have changed over time. What are metamorphic rocks that have different layers of wheat called? Metamorphic rocks that have several layers of grain are called leafy rocks. What are the two types of metamorphism that cross metamorphic rocks? The two types of metamorphism are contact metamorphism and regional metamorphism. What makes metamorphic rocks different? Metamorphic rocks are different from other rocks because they are made of rocks that change and become metamorphic rocks or made of other metamorphic rocks. Quartzite, a form of metamorphic sandstone Layers bent into a metamorphic rock near [Geirangerfjord], Norway A metamorphic rock is a type of rock that has been changed by extreme heat and pressure. His derives from 'morph' (meaning form) and 'half' (meaning change). The original rock is heated (temperatures above 150-200 °C) and (1500 bar). This causes profound physical and/or chemical changes. The original rock can be sedimentary rock, igneous rock, or another older metamorphic rock. There is more and more pressure and higher temperature beneath the Earth's surface. At the root of a mountain range or volcano these forces will be enough to change the shape of the layers and minerals of which it is made. Sedimentary rock that has been close to such forces often appears to have twisted and warmed it to a fire. Examples of metamorphic rock: The recrystallization of minerals after heating generally causes the destruction of any fossil that the rocks may have contained. Types of metamorphism Mississippi marble regional metamorphism in Big Cottonwood Canyon, Wasatch Mountains, Utah regional metamorphism, or dynamic metamorphism, occurs in large masses of rock. Rocks can be metamorphosis simply by being at great depths below the Earth's surface. There they get high temperatures and the large weight of the rock layers above. Much of the lower continental crust is metamorphic, with the exception of recent igneous intrusions. Horizontal tectonic movements such as continent collision create orogenic belts. High temperatures, pressures and deformations occur along these belts. If metamorphosis rocks are subsequently raised and exposed by erosion, they are seen as long belts or other large areas on the surface. Contact metamorphism A contact metamorphic rock made of interlayered and serpentine calcite from the Precambrian of Canada. It was once thought to be a fossil called Eozoön canadense. Scale in mm. Contact metamorphism occurs when magma is injected into the surrounding solid rock (country rock). The changes that occur are greater where the magma comes into contact with the rock. Temperatures were higher there and dropped with the distance from it. Related pages List of rocks Igneous rock Sedimentary rock List of minerals Children's images Metamorphism in contact with rock Do you want to know more about rocks? Well, you're in the right place! Check out these 10 facts about the rocks... It's not just a kind of rock you know! There are three different types. They are igneous, sedimentary and metamorphic. It incorporates from Getty Images 2. Rocks are made of minerals. Each rock has variable minerals, which is why there are so many different minerals. Some of the best known minerals are calcite, quartz, olivine and mica. Minerals are made naturally in the Earth and are made of chemicals. 3. Igneous rock comes from molten magma. Melted magma is the very hot stuff you find in volcanoes! Magma turns into rock when it cools down. There are two different types of igneous rock, depending on whether the magma has cooled on the Earth's surface or below. It's plutonic rock if is cooled under and volcanic rock if it has cooled above. Slate and pomomics are types of igneous rock! It incorporates from Getty Images 4. Sedimentary rock is very common. It is made up of layers of things like sand, mud and small stones. Beyond years, the lower layers are compacted with new layers coming together at the top. The types of sedimentary rock are gypsum, sandstone, shale and limestone. 5. Metamorphic rock has been put under a lot of pressure and heat. Metamorphic rock comes from rocks that have been put under a lot of pressure and heat. Pressure and heat can be made by earth's movements. After all, it moves all the time! Two examples of metamorphic rock are slate and marble. 6. Geology is the study of rocks. Geology is the study of rocks and geologists are the people who study them! They study which minerals each rock contains and also study the history of the Earth. 7. Space rocks land on Earth! Sometimes rocks from space earth on Earth, however most of the time they land in the sea. These rocks are called meteorites. If you've ever seen a shooting star, it's actually a bit of space rock entering the atmosphere! It incorporates from Getty Images 8. You can find silver and gold in minerals. Some rocks are called minerals. Minerals are rocks that have metals like gold and silver on them. 9. Rocks have been used for millions of years. Humans used them millions of years ago to build tools and weapons. Now we use them to build things like houses, cars and even planes! It incorporates from Getty Images 10. Use rocks and minerals at home. Did you know that rocks are found in some of the things we use at home? Like soap, toothpaste, make up and batteries! Embed from Getty Images Click here to learn more about rocks Add a comment

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