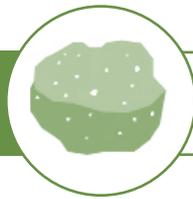


Surrounded by Rocks and Minerals



GEOLOGY

Name _____ Date _____

Rocks and minerals have been important to people throughout history both for shaping our environment and as materials for our use. We're going to see which rocks and minerals we can spot around the museum!

First, look around! All of the floors and walls at the Academy are concrete made from crushed **limestone** or **granite**.



R. Sargent © CAS

Find this statue outside in the East Garden. This sculpture is made from chips of **granite**, an igneous rock that forms when hot magma underneath the Earth's crust cools and solidifies. Go ahead and touch the statue — it's no longer hot!

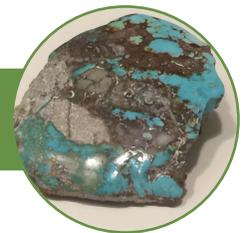


Draw how the **granite** looks like up close:

M. Schufreider © CAS

How many shades of turquoise can you find?

Look for the **turquoise** stones and jewelry. (Hint: it's on the 3rd floor)



K. Eriksen © CAS

Turquoise is often found in dry, arid regions. Where did our turquoise come from? What does that tell us about that area?

Find the fossils in the *Earthquake!* exhibit. These fossils are stuck in sedimentary rocks like **limestone**, **mudstone**, and **shale**.



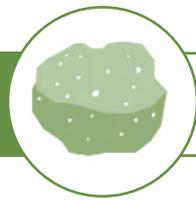
K. Eriksen © CAS

Why do you think fossils are most likely to be found in **sedimentary rocks**?

Here's a hint »

Sedimentary rocks are formed on earth's surface when wind, water, or ice deposit fragments of rocks and minerals in layers.

Surrounded by Rocks and Minerals



GEOLOGY

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Walk through the globe with a crack in it to find specimens of rocks and minerals found on and within Earth.

Match each mineral to the Earth's layer in which it is commonly found. (Hint: Iron is found in two layers, and the crust matches with several minerals.)

MINERAL	LAYER
MAGNESIUM	CRUST
IRON	MANTLE
FELDSPAR	CRUST
QUARTZ	MANTLE
	CORE

Extra Credit

Ask your own question about geology to a Docent or to someone working in the Naturalist Center!

Question:

Answer:

My favorite rock or mineral on display is known as _____.

It is colored _____.

Here is a quick sketch:

My specimen is often found:

- in the **magma** of the mantle
- in the **crust**

Find two touchable rocks in the center of the globe. Compare their physical traits in the chart below. Consider **color**, **texture**, and the size of the **grains** you can see.



M. Schufreider © CAS

ROCK FROM
CONTINENTAL CRUST

ROCK FROM
OCEANIC CRUST

Which type of crust do you think is more **dense**? (Hint: Look at the diagram nearby. One type of crust sinks under the other when they collide.)