

Science Fair Project Ideas

Earth Science: Minerals, Rocks, and Soil (3-4)

Minerals

Which kinds of minerals are found in sand?

Which kinds of minerals are found in a classroom?

How are atoms arranged in different minerals?

Are crystal patterns related to how easily a mineral will break?

Does heat affect the formation of crystals?

Are some minerals fluorescent?

Why do minerals come in so many colors?

Which minerals are important for human health?

Does mineral water really contain minerals? If so, what kind?

Which minerals are edible, and why?

Which minerals are found in breakfast cereal?

Rocks

Can rock types be identified most reliably by looking at their color, shape, size, or banding pattern?

Why does sedimentary rock have so many layers?

Where can the three different rock types be found?

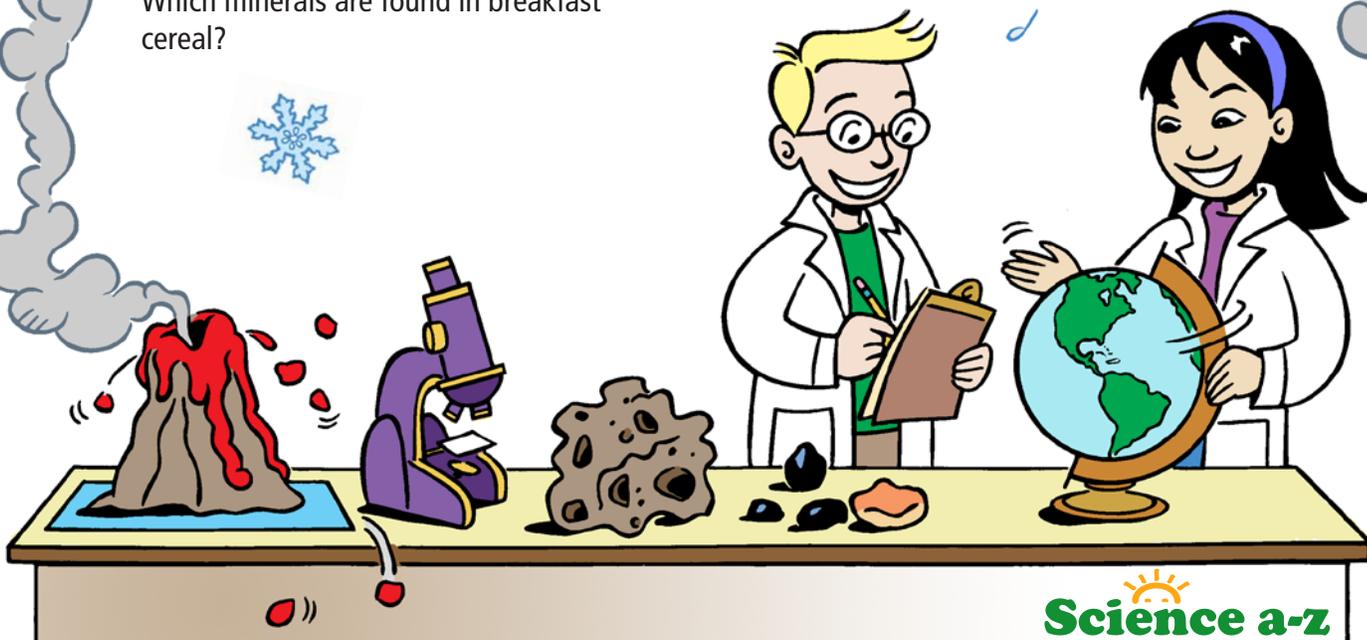
Are certain rock types more common in certain ecosystems?

How long does each step in the rock cycle take?

How is lava involved in rock formation?

Can the outside of a geode predict the size and color of the crystal inside?

Using the Mohs scale, how do the rocks in my yard compare in hardness?



MORE Science Fair Project Ideas
Earth Science: Minerals, Rocks, and Soil (3-4)

Can rocks absorb water?

How do mountains form?

Can vinegar be used to break down different kinds of rocks?

Can carbonated water be used to break down different kinds of rocks?

Which forces of weathering and erosion break down a huge boulder fastest?

Can freezing or very hot temperatures break rocks apart faster?

How does a rock tumbler mimic weathering that wears down rocks in nature?

Have weathering and erosion affected any famous stone landmarks?

Soil

How do rocks turn into soil?

How much water can different types of soil hold?

Can the color of soil indicate how much moisture it contains?

Can the color of soil indicate how much humus it contains?

Does the amount of water in soil affect the temperature of the soil?

What kinds of organisms live in soil?

What kind of soil is best for growing plants?

Do different types of minerals in soil affect plant growth?

How is the soil on the Moon and on Mars similar to and different from the soil on Earth?

How does soil erosion affect lakes and streams?

Does the speed of water flow affect erosional patterns?

Which erodes faster: clay soil or sandy soil?

Can plants help stop soil erosion?

Has soil erosion affected my school?

