

Sci-Map Site

Jean Klein Rock Cycle Garden

Name of Activity

Edible Rocks - Metamorphic

Materials

Pancake mix

Water

Chocolate chips

Butterscotch chips

White chocolate chips

Edible igneous rocks (posted hands on activity)

Edible sedimentary rocks (posted hands on activity)

Procedure

Mix some pancake batter with water according to the directions on the package. Add the different flavored chips, a piece of the edible igneous rock and a piece of the edible sedimentary rock. Ask an adult to cook the pancake batter according to directions on the package. Feel free to bend, fold, and press down the pancake with a spatula while cooking.

Look at the batter. Does it look the same before and after you added heat (griddle) and pressure (folding, bending and pressing down with the spatula)? Look at the chips. Can you see the whole chip? Have the chips changed shape or color? If the chip were a sea shell could you still remove it from the rock?

The Science Behind It

Metamorphic rocks form when sedimentary and igneous rocks are subjected to tremendous heat and pressure. Over time the original rocks are squeezed, hardened, and folded to transform into denser, more compact rocks. This process is called metamorphosis, which means "change of form".

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