

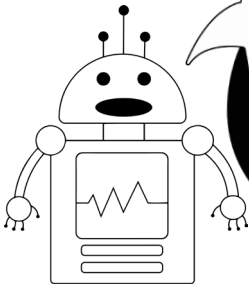
Date: _____

Name: _____

Design A Rock

This activity was created by Amelia

Use the different characteristics below to design your own rock. (In reality, rock formation is linked to the geology of specific places, but in this activity you can use your imagination to come up with a story for how that rock might have come to be). Rock on!



This activity uses **conditional statements**. As you decide what your rock looks like, you must follow the conditions outlined below for the information to be true. Computers use conditional statements all the time. IF the conditional statement is true, then the computer will complete the action. ELSE the conditional statement is false, the computer will do something else.

For each category, circle the option you would like to pick for your rock! Some choices will affect options that are available to you for other categories, so choose carefully.

ROCK TYPE

There are 3 main ways rocks can form

igneous

(formed when molten lava cools and crystallizes)

metamorphic

(formed through the breakdown of other rocks)

sedimentary

(formed when lots of heat or pressure is applied to other rocks)

COMPOSITION

The way your rock was formed will decide what it is made of.

if igneous

sand gravel clay

if metamorphic

other rocks

if sedimentary

magma lava

Date: _____

Name: _____

WEATHERING

A process that causes the texture of the rock to change

physical

(from temperature changes or the impact of water, rain or snow)

chemical

(from acids or salt)

biological

(caused by plants, animals and humans)

TEXTURE

Different types of weathering will be more likely to cause different surfaces

if physical weathering

smooth

split into pieces

if chemical weathering

grooves

holes

if biological weathering

moss growth

lichen growth

plant growth

BONUS QUALITY

Optional qualities to make your rock extra-special!

if igneous

very old

if metamorphic

mineral crystals

ptygmatic folding
(looks like a snake is coming out of the rock surface)

if sedimentary

contains a fossil

Rock name: _____

Draw a picture of your rock, and give it a name! In your drawing, consider other qualities your rock might have and how this might link to the story of how it was formed: colour, shape, hardness (and check out the next page for an activity all about rock hardness!)

