CHOCOLATE ROCK CYCLE

How can we represent the stages of the rock cycle using chocolate?



Sedimentary rock Igneous rock Metamorphic rock

YOU WILL NEED

- White, milk and dark chocolate cubes
- Graters
- Cling film squares
- Cups
- A source of hot water

STEM VOCABULARY

- **Igneous** formed from molten rock from underground that is forced to the surface via a volcano (granite, basalt)
- Magma hot fluid beneath the earths crust from which lava and igneous rock is formed by cooling.
- Metamorphic Rock sedimentary or igneous rock that has been changed by heat or pressure underground (marble, slate)

- Metamorphosis to change in form, structure or substance. Rock metamorphosis is specifically caused by heat or pressure.
- Sediment loose pieces of minerals and rocks.
- Sedimentary ROCk created from sediment layers under the sea (limestone, sandstone, chalk).



KOW TO DO IT

- 1) To make **sedimentary rocks**, grate milk, white and dark chocolate into separate piles. Line a cup with cling film and then layer it with the different flavours (sediments). Press them together with your finger and then remove cling film to view your rock.
- metamorphic rocks. take 2) To make vour sedimentary rock and wrap it in cling film. Shape it into a ball using your hand, massage with your fingers heat and watch the to create rock metamorphosis.
- 3) TEACHER DEMONSTRATION: To make **igneous**

rocks, take your sedimentary and metamorphic rocks, wrap in cling film and drop into a source of hot water. Watch as the heat melts the rocks. Take them out and let them cool, turning into igneous rocks.



INVESTIGATE



When we make <u>sedimentary rock</u>, the pressure from our fingers forces the sediment together into a sold rock. When we make <u>metamorphic rock</u>, the heat and pressure of our hands replicate that of the Earths crust. When we make <u>igneous rock</u>, the heat (volcano) creates lava (the melting rocks) which eventually cools to create igneous rock. Create rock cycle fact sheets, powerpoints or videos to share what you have learnt.



