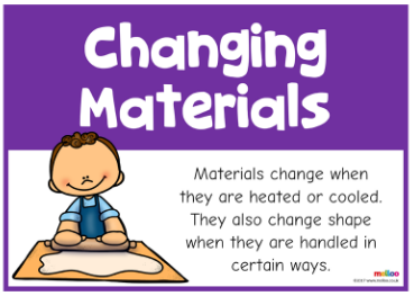
Year 2 Science Home Learning

This half term we will be learning about: **Materials**



Our research question for this topic is:

How are materials used and changed?

How can we reduce our use of certain harmful materials?

1. Can you remember the materials we learnt about in Year 1? Make a list of these.

2. Try this science experiment at home:

What happens to ice when it melts?

Find out what happens to ice when it melts, you could even make some slushy drinks. Trying freezing different food materials, water, syrup, bread, milk etc. Do some take longer to freeze/defrost than others?

OR

Learn about how heat changes chocolate by making rice krispie cakes.

Changes Made by Melting and Freezing

PoS - demonstrate that dissolving, mixing and changes of state are reversible changes
NaG - pupils should explore reversible changes, including evaporating, filtering, sieving, melting and dissolving, recognising that melting and dissolving are different processes.
WS - pupils should use simple models to describe scientific ideas

Melting and freezing can cause materials to change; some of these changes may be reversible, and some may not. Some materials can exist as both a solid and a liquid. Orange juice is a liquid but when frozen turns to ice and becomes a solid. Chocolate is a solid but when heated begins to melt and becomes a liquid. Look at the materials below and say what has caused them to change (melting or freezing) and whether this change is reversible. If the change has been caused by heating, colour the arrow red and if the change has been caused by cooling, colour the arrow blue.

Material	Change	Changes caused by:
1) Orange juice 		What has changed_____ _____. This change has been caused by _____ Is this change reversible?_____
2) Butter 		What has changed_____ _____. This change has been caused by _____ Is this change reversible?_____
3) Chocolate 		What has changed_____ _____. This change has been caused by _____ Is this change reversible?_____
4) Water 		What has changed_____ _____. This change has been caused by _____ Is this change reversible?_____
5) Ice 		What has changed_____ _____. This change has been caused by _____ Is this change reversible?_____

There are also lots more fun activities on the STEM web-site that you can watch or try yourself at home.

https://www.stem.org.uk/

Intriguing Ice

https://www.stem.org.uk/resources/elibrary/resource/33254/intriguing-ice

Suspended in Ice

https://www.stem.org.uk/resources/elibrary/resource/33255/suspended-ice

There are many more activities to do as a family here:

https://www.stem.org.uk/resources/elibrary/resource/35390/properties-and-changes-materials-suitable-home-teaching