

## Science for w/c 27.4.2020

L.O. Recognise that water can be a solid, liquid and a gas, observe how water changes when it is heated or cooled and research the temperature at which other materials change state.

Listed below are some suggested activities that you could have a go at. You are not expected to do all of them and if you have other ideas then feel free to do them instead or as well!

The link below takes you to a short video introduction of freezing and melting -  
<https://www.bbc.co.uk/bitesize/topics/zkgg87h/articles/z9ck9qt>

### Investigate ice cubes

- Hold one in your hand - What happens? Why? Can you speed up or slow down the process? Ask other people in your house to join in - Who's ice cube lasts the longest? Why do you think this is?
- Put a few ice cubes in different places around the house and check on them every 10 minutes or so - Where do they melt fastest? Where do they last longer? Why do you think this is? Can you turn the melted ice cubes back into solid ice cubes?
- Can you fish for ice? Place ice cubes in a cup of water. Try to "fish" for an ice cube with a piece of string. What happens? Place the string in the water and across the top of the ice cube. Sprinkle a little bit of salt across the ice cubes. Wait for a

minute or two. Pull the string out and see what you've caught! Why does this happen? Does the amount of salt you use affect the result?

Use the internet to research the different melting and freezing points of a variety of materials.

Investigate what needs to happen for water to be changed into a gas.

Hint - Look carefully next time someone makes a cup of tea or cooks some pasta. What happens to the mirror or the windows when you take a bath?

