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Dr Jo Science Lockdown Weekly Science Challenge Frost, freezing, snow and ice



Make frosty snow



- (decorate it if you like)

 Place the can in a warm room

 Watch as frost appears on the outside of the
- The water vapour in the warm air condenses when it comes into contact with the cold can
- · It's so cold with the ice inside that the water
- vapour actually freezes!
 This is how frost forms.

Freezing and Melting





- · Freeze water in ice cube trays or pots and then watch what happens as it melts.
- Can you speed up or slow down how fast it melts?
- You could try freezing small toys, leaves or flowers in the ice and
- see how you can set them free What happens when you add salt? Or sugar?

Investigate freezing points



- Fill an ice cube tray with different liquids (try water, juice, oil, tomato sauce etc)
 Time how long each one takes
- to freeze Why do some freeze more slowly than others?

Freeze a bubble!

- Find an early morning frosty surface and blow some bubbles
 See if you can watch them freezer
- · What patterns can you see?



No snow? Make your own indoor fizzy bathbomb

- You will need:
- Sodium bicarbonate Cream of tartar Cornflour (optional)

- Cooking oil Essential oil water
- Mix 2 tsp sodium bicarbonate and 1 tsp cream of tartar Add 1 tsp cooking oil and a few drops of essential oil

- Work quickly to combine then press into a mould with the back of a
- Leave to dry for a few hours before turning out
- Add a few drops of water or pop in the bath (it will fuz!)

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