# Summer Term Science:

# Enquiry Types - Observation over Time and a Fair Test!

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| **Question**  |
|  What happens to the ice over time? |
| *This investigation calls on two types of scientific enquiry. We are* ***observing over time*** *what happens to each ice cube. We are also conducting a* ***fair test*** *as we are changing one thing in each bowl – the thing that accompanies the ice (water, sugar or salt) to see if this affects how long the ice takes to melt.* |
| 1. You will need 4 containers or bowls.
2. As in the picture, place one of the following in each bowl:
* Ice in water
* Ice coated in sugar
* Ice coated in salt
* Just ice
1. Set up a timer (or use the timer on a phone!) and check your ice cubes every ten minutes to see what is happening to them.
2. Don’t leave your investigation unattended, especially if you have a pet or younger children in the house.
3. Which ice cubes are melting the fastest?
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| **Younger Children**  | **Older Children**  |
| Create a poster that explains what you found out. Can you include in your poster: your equipment, what you think might happen and your results.  | Write a mini report of your investigation showing your question at the top, your prediction about what will happen (good guess) and your results.After you have finished, analyse your results. Think about:* Was your prediction correct?
* Why do you think this happened? Can you research the effects of sugar and salt on ice?
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| Learning Extension |
| Enjoyed this ice activity? Perhaps you could have a go at these!  |