

CRAFT BOX

SCIENCE - HOT ICE

This activity is for Explorers but any section or leaders could take part too !

Explorer Science Challenge

What you need:

- 240g White Vinegar
- 2 tbsp Baking Soda
- Glass Bowl or Jug
- Saucepan
- Baking Tray
- Cling Film



How to make it:

Magic transformation in the kitchen using the process that makes pocket hand warmers...

1. Pour the vinegar into a saucepan and then SLOWLY add the baking soda, stirring gently. (if you add the soda too quickly the reaction will be spoilt)
 2. Slowly bring the mixture to the boil to concentrate the solution.
 3. Boil until a crystal film begins to form on the surface – this will take about one hour at the lowest heat possible to retain the boiling of the liquid – see safety note.
 4. Remove from the heat and pour into a glass jug or bowl, making sure that none of the crystals get into the container. Cover with cling film and leave to chill in a fridge until cold.
 5. Carefully scrape the crystals from the saucepan and place them onto a baking tray.
 6. Once the solution in the jug or bowl is cold, VERY slowly pour it over the crystals and watch what happens.
- NOTE: the ice produced is safe to touch – it will not harm skin.

Get more Crafty:

Watch this video, although the experiment uses the same ingredients, it is a slightly different method, but why not have a go to replicate the ice flowers or hand statues shown in the film. [Click here](#) to watch.

Safety Notes:

Online Access: Supervise young people when they're online and give them advice about staying safe.

Food / Allergies: Check for allergies before you begin. Make sure you have suitable areas for storing and preparing food and avoid cross contamination of different foods. All activities must be safely managed.

Note: This activity uses heat to boiling point, it is strongly advised that an adult supervises the cooking part.

