



CLUB NATACIÓ BARCELONA
Pioners de l'esport 1907



CANDY IN THE LAB

**“GROWING
SUGAR
CRYSTALS”**

FITXA DE L'ACTIVITAT

Edat dels Destinataris: 13-17 anys

Durada de l'Activitat: 45m. (aprox)

Objectius Educatius:

- Aprendre fent (*Learning by doing*)
- Experimentar
- Treballar la creativitat
- Despertar la curiositat de la investigació
- Treballar l'idioma anglès



Recursos:

- 150 ml of Water
- 450 ml White sugar
- 2 Empty and clean jars
- Wooden stick
- Wooden Peg
- Beaker
- Rod
- Heating plate
- Spoon

Desenvolupament de l'activitat:

1. Measure 150 ml of water, pour the water in a PYREX beaker and heat the water.
2. Heat the water until boiling. And keep it to low heat.
3. Add 350 ml of sugar slowly and remove with the rood until it is dissolved.
4. Don't heat the solution for too long as it will start to turn into hard candy.
5. Remove the sugar from the heat.
6. Add the solution into your two jars.
7. Add food colouring or flavour and remove with the rod.
8. Soak the wooden stick with the solution and wait 5 minutes until it dries.
9. With the help of the peg, introduce the wooden stick into your jar (without touching the bottom).
10. Leave the jar in the lab for a week nearby a radiator. Don't move or touch the jar!



Introduccion:

Crystallization is the solidification of atoms or molecules into a highly structured form called a crystal. Usually, this refers to the slow precipitation of crystals from a solution of a substance.
Sugar crystals are formed as a result of a supersaturated solution.

Lets remember what a **SOLUTION** is:



In a **supersaturated solution**, the sugar molecules have a higher chance of bumping into one another because there is less space to move around.

When this happens, the molecules start sticking together.

When you give the molecules something to cling too they form into crystals faster.

The more molecules bump into each other, the bigger the sugar crystals get.

Molecules **bind** together following orderly and repetitive patterns, so eventually, you're left with visible **sugar crystal patterns** in your jar.

