

Sugar Crystal Sparklers

The Science Behind the Experiment – A Guide for Adults

Very hot water can hold more dissolved sugar than cold water, as it is a supersaturated solution. This solution is unstable – it holds more solute (the sugar) than can stay in liquid form. As the mixture cools down, the sugar comes out of the water and forms crystals on the skewer. The water in the solution also evaporates, which makes the solution more saturated with sugar and so more crystals form.

Science Experiment

Sugar Crystal Sparklers

What colours can you see?

What can you see on the stick?

Where do you think it has come from?

What do they look like?

How has it changed over the last few days?

