

FROST ON A CAN



You'll need

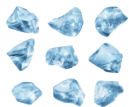
A clean empty can

Crushed ice

Water

Salt

Spoon



Instructions

Fill the tin can about half full with ice and add a little water and a couple of tablespoons of salt.

Wait and watch the frost form. If it doesn't work, try adding more salt.

Why does it work?

Initially the temperature of the icy water will be around the freezing point of water (zero degrees Celsius). However, for frost to form it needs to be even colder, which is why salt is needed. Salt lowers the freezing point of ice, making the ice melt. To do this it draws heat from the surroundings (in this case the tin can) making them even colder. The salt reduces the temperature on the surface of the can to below freezing point which makes the water vapour in the air condense and freeze on the surface!!

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Adult supervision required. You are responsible for your own safety.

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