

Salty ice rainbow



You will need:

1. Ice block (freeze water in a food container)
2. Salt
3. Watercolours or food colouring (rainbow colours)
4. Paint brush
5. Baking tray

The science behind:

When you add salt to the ice it dissolves into the water of the ice block.

Salt water freezes at a lower temperature than freshwater does.

The difference between the air temperature and the freezing point of salt water is bigger than the difference between the air temperature and the freezing point of freshwater.

This makes ice with salt on it melt faster.

1. Put your ice block into the baking tray.

2. Put salt on your ice block.

The salt will make craters in the ice, because it makes it melt fast.

3. After a few minutes use your brush to paint a rainbow on the salted ice.

The colours will highlight the ravines, crevasses, and tunnels that are forming in the ice as the salt melts it.