

Freezing Point Experiment

Worksheet

Resources

- 3 x 500ml glasses
- 300mls water in each per glass
- Teaspoon
- Salt granules
- Whiteboard pen or other pen to mark the glasses
- A freezer

Experiment

Step 1: Leave the first glass with just water in it and mark a number 1 on the side

Step 2: Add 1 teaspoon of salt to the second glass of water and stir. Mark a number 2 on the side.

Step 3: Add 2 teaspoons of salt to the third glass of water and stir. Mark a number 3 on the side.

Step 4: Place all 3 glasses in the freezer for 24 hours

Step 5: Make your prediction

Step 6: Remove the glasses and see what has happened to the water

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Prediction

What do you think will happen to the salt water? Will it be different to what happens to the fresh water?

Think

Were you right with your prediction?

What has happened to the water in each glass?

Why has this happened?

Did the salt make a difference?

Where do we find salt water and ice here on Earth?

What does this tell us about the freezing temperature of ice with salt in it?

Why might this be a problem as the Earth gets warmer?