Ice Science



Written by Victoria St John
Photographed by Richard Leonard

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For teachers' inspection ONLY

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Introduction

Did you know that ice is a form of water?
When a liquid, like water, is cold enough,
it changes into a hard form called a **solid**.
The temperature at which water becomes ice
is its **freezing point**.
The freezing point of water
is 0 degrees Celsius.

Snowflakes, sleet, hail, icicles, glaciers,
icebergs, pack ice, and polar ice caps
are all forms of ice.
Snowflakes and sleet may not look like solids,
but they are.



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This book contains four different tests
that will teach you
about the special nature of ice.
Tests such as these are called **experiments**.
Do these experiments to make sure
that what you read about ice is really true.

What You Will Need for Your Experiments



freezer



pitcher

water



ice-cube trays



plates



marker



baking tray



oven mitts



rubber gloves

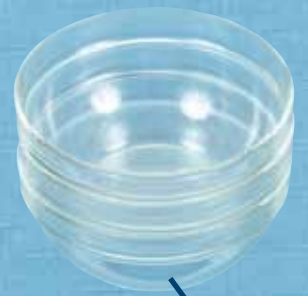
clear plastic cup

kettle



salt





bowls

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Freezing

When most liquids freeze,
they get smaller.
When water freezes, it gets bigger.
This process is called **expansion**.
How can you be sure water expands?

1. Use a marker to draw a line
on the outside of a clear plastic cup.



2. Fill the cup with water.
Make sure the water touches the line.



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