**Focused Assessment of Science**

<table>
<thead>
<tr>
<th>Topic:</th>
<th>Materials: States of matter</th>
<th>Year 4 Age 8-9</th>
<th>Title: Investigating ice cubes</th>
</tr>
</thead>
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<tr>
<th>Working Scientifically Focus</th>
<th>Conceptual Knowledge Context</th>
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<tbody>
<tr>
<td>Plan: Plan and set up a fair test</td>
<td>observe that some materials change state when they are heated or cooled</td>
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**Example**

Children were asked to plan and then carry out an investigation to find out where ice cubes would melt the quickest.

**Plan and set up a fair test**

- **To make our test fair** we are keeping these things the same: The amount and size of the ice cubes, the container, the time.
- **We are only changing** the place of which we will put.

**First we will**

- Put the ice cubes in the cup.

**Then we will**

- Put each cup in a different place.
- Different temperatures (hot, cold, or normal).

**This is what we think will happen**:

- **I think that the ice cubes in the warmest place will melt first**.

Children meeting the objective would be able to explain or show how to set up the test, controlling some of the variables, for example, the number of ice cubes or the pot they are put in.

**Example from Worlebury St Paul's Primary School, Weston-super-Mare**