Additional activity ideas

Freezing race

Resources you will need: Ice cube trays or small pots, freezer, water, milk, orange juice, olive oil, labels, recording sheet

Task: Children place small amounts of different liquids (water, milk, orange juice, olive oil) in labelled ice cube trays or small pots. These are placed in the freezer at the same time. Pupils make predictions about which will freeze first, observe changes over time, and record results.

This will help the children to observe that different liquids freeze at different rates and to recognise freezing as a reversible change.

Ice race

Resources you will need: Pre-frozen cubes of water, milk, orange juice, olive oil, trays or plates, paper towels, recording sheet

Task: Children are given frozen cubes of different liquids (prepared before the lesson). They observe what happens as the cubes melt at room temperature and compare the liquids to their original state.

This will help the children to see that when solids which are formed by freezing melt, they return to the original liquid, demonstrating a reversible change.

Mystery liquids

Resources you will need: Opaque plastic cups, frozen water, milk, orange juice, olive oil, trays, paper towels, labels hidden underneath cups

Task: Children are shown several opaque cups, each containing a different liquid that has been frozen (prepared earlier). They predict what liquid is inside based on smell/appearance as it melts, and check whether it returns to its original form.

This will help the children to understand that freezing does not change what the material is, it is still the same liquid once melted, making the change reversible.