

# Whole School Snowy Science Challenge

**Investigate how the volume of snow affects how quickly it melts**

For this investigation you will need some snow, a container to hold the water as it melts and a timer.

Make a small snow ball, about 5 cm in diameter and place it in the container. Start the timer and record how long it takes for the snow ball to melt at room temperature.

Repeat the experiment using a snow ball 10cm in diameter.

Write up what you did:

- What was the independent variable (the thing you changed)?
- What was the dependent variable (the thing you measured as the result)?
- What things did you need to keep the same?
- What effect did the volume of snow have on the time to melt?
- Can you explain WHY this happened?
- Do you think you would have got the same time to melt if you had used another shape (e.g. made it into a snow sausage)? Investigate different shapes, ensuring these are measured in some way.
- What other things might affect the time for the snow to melt that you could investigate?

**Write up your scientific investigation, remembering to include a table of results. Bring it to school on Monday to claim your prize.**