Ice Melting Experiment

Question What is the best material to stop ice from melting?

Aim What do I want to find out?

To find out which material is best at stopping ice melting.

Hypothesis What do I think will happen?

That the tinfoil will be the best at stopping it melting; it will lose the least mass.

Independent Variable What am I changing and how?

We are changing the material that the ice cubes are wrapped in. We are using paper, tin foil, fabric, plastic wrap and wool.

Dependent Variable What am I measuring and how?

We are measuring how much mass the ice cubes lose after they sit out on the table for 15 minutes. We are going to weigh them before and after and use the unit grams (g).

Equipment What do I need to carry out the experiment?

Scales, similar sized Ice cubes (6), equal size pieces of paper, tin foil, fabric, plastic wrap and wool – big enough to fully enclose each ice cube, stopwatch, forceps

Method What does my experiment look like?

What do I need to do?

1. Collect all equipment.
2. Use the forceps to weigh 1 ice cube and record its mass in the results table. Wrap this carefully in the piece of paper. (try not to touch the ice cubes with your hands – use the forceps as much as possible).
3. Repeat step 2 for the other materials, making sure to leave one ice cube with nothing on it.
4. Start your stopwatch when all cubes are wrapped and wait for 15 minutes.
5. Unwrap the paper wrapped ice cube and shake off any water drops using the forceps, weigh the ice cube and record in your results table.
6. Repeat step 5 for the other cubes. Unwrap them in the same order that you wrapped them in.

Results What did I observe happening?

What data did I collect?

Material	Mass Before	Mass After	Amount Lost
paper			
fabric			
tin foil			
plastic wrap			
wool			
nothing			

Results Graph

Because this data is not showing a trend or pattern it is just giving some data on 6 separate things we will use a bar chart.

Conclusion

What have I found out from this experiment?