

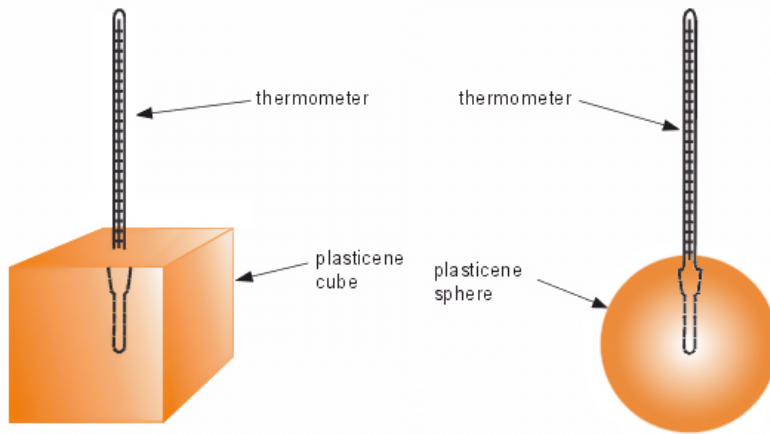
# Spheres and cubes

**This task is about fair testing and plotting results from a data table.**

An experiment was set up to compare the rate of cooling of a plasticene sphere and a plasticene cube.

This is what was done:

- Four shapes were made out of plasticene; two cubes and two spheres.
- A thermometer was pushed inside each shape to measure the temperature throughout the experiment. (See the diagrams below).
- A container of hot water was used to heat up the shapes.
- The shapes were removed from the hot water and allowed to cool for 25 minutes.



a) Why were two of each shape used?

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b) What are three variables that should have been kept the same in this experiment?

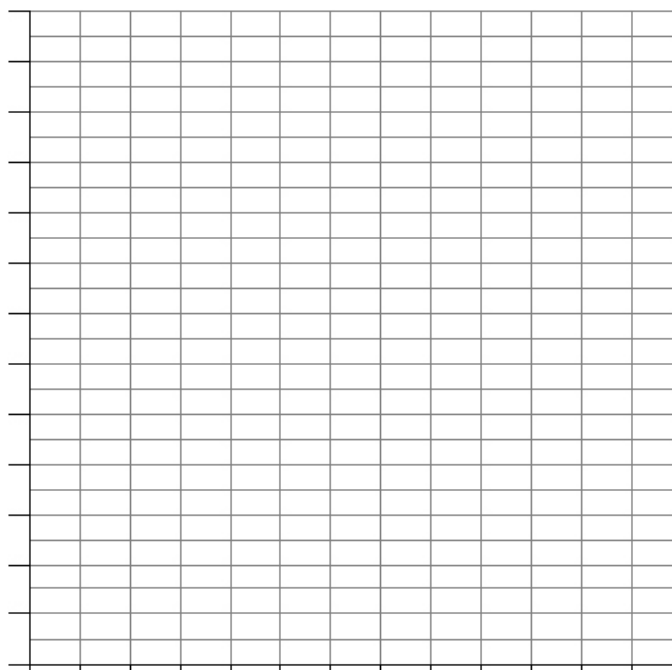
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- c) The results of the experiment are shown on the table below.  
Use the data to plot a graph of the results.

	Time (minutes)											
	0	1	2	3	4	5	6	7	8	9	10	11
Sphere temp °C	38	36	34	32	30	29	28	27	26.5	26	25.5	25
Cube temp °C	38	35.5	33	30.5	29	28	27	26	25.5	25	25	25



- d) Explain the results.

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