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?

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

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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