

Keeping drinks warm

This task is about designing and carrying out a fair test.

Which cup kept the water hot? With the materials you are given, design an investigation to find out which cup will keep water the hottest over 10 minutes, and how the water temperature changes over 10 minutes.

a) i) Write a plan for your investigation here. When you have written your plan, give it to your teacher to check.

ii) How often will you measure the water temperature? _____

iii) Which cup do you think will keep the water the hottest? _____

Plan checked by teacher?

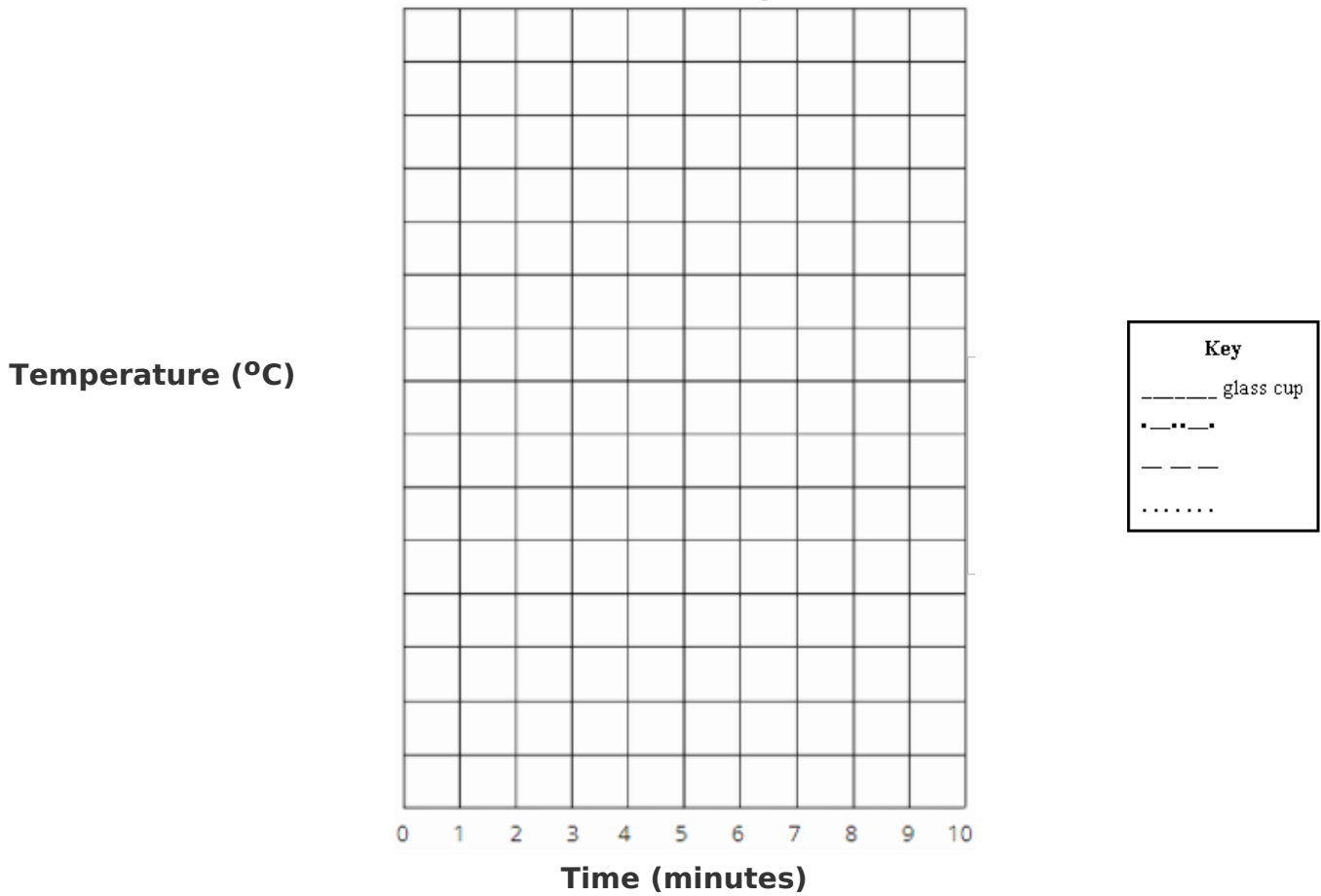
b) Carry out your investigation. Record your results in this table. You will need to measure the water temperature before you start. This will be 0 minutes for your data and on your graph.

	Water Temperature in Cups (°C)			
Time (minutes)	_____ cup	_____ cup	_____ cup	_____ cup
n				

1				
2				
3				
4				
5				
6				
7				
8				
9				
10				

c) On this grid draw a line graph to show your results for all 4 cups. You will need to complete the key and the axes.

The Temperature Change of Water in 4 Different Cups



d) Write a conclusion for your investigation.
