This is Mr Spencer. He is getting the food ready for his birthday party, and wants to make some chocolate crispy cakes.

His party is only a few hours away, so he needs to make them fast! He needs to know the best temperature for melting chocolate.

When he has melted the chocolate, he can then add the cereal, shape the mixture into cakes and leave them to freeze in time for his party!

Can you help him find the best temperature for melting chocolate?

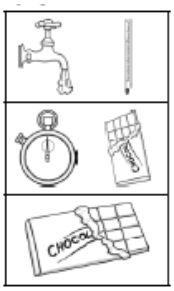
Plan your investigation and then carry it out!

Equipment: Circle the things you will need.		
thermometer	tape measure	magnifying glass
foil tins	sand	stopwatch
torch	chocolate	water
ruler	pipette	trays

You will float the pieces of chocolate in foil tins on trays filled with different temperatures of water. Underline the correct words or phrases below to show how you will make sure your investigation is reliable.

I will make sure each piece of chocolate is the same/a different size. I will use the same/different amounts of water in each tray. The temperatures of the water in each tray should be the same/different.

What will you measure and observe in this investigation? Use the images and the sentence starters to help you.



I will measure the…

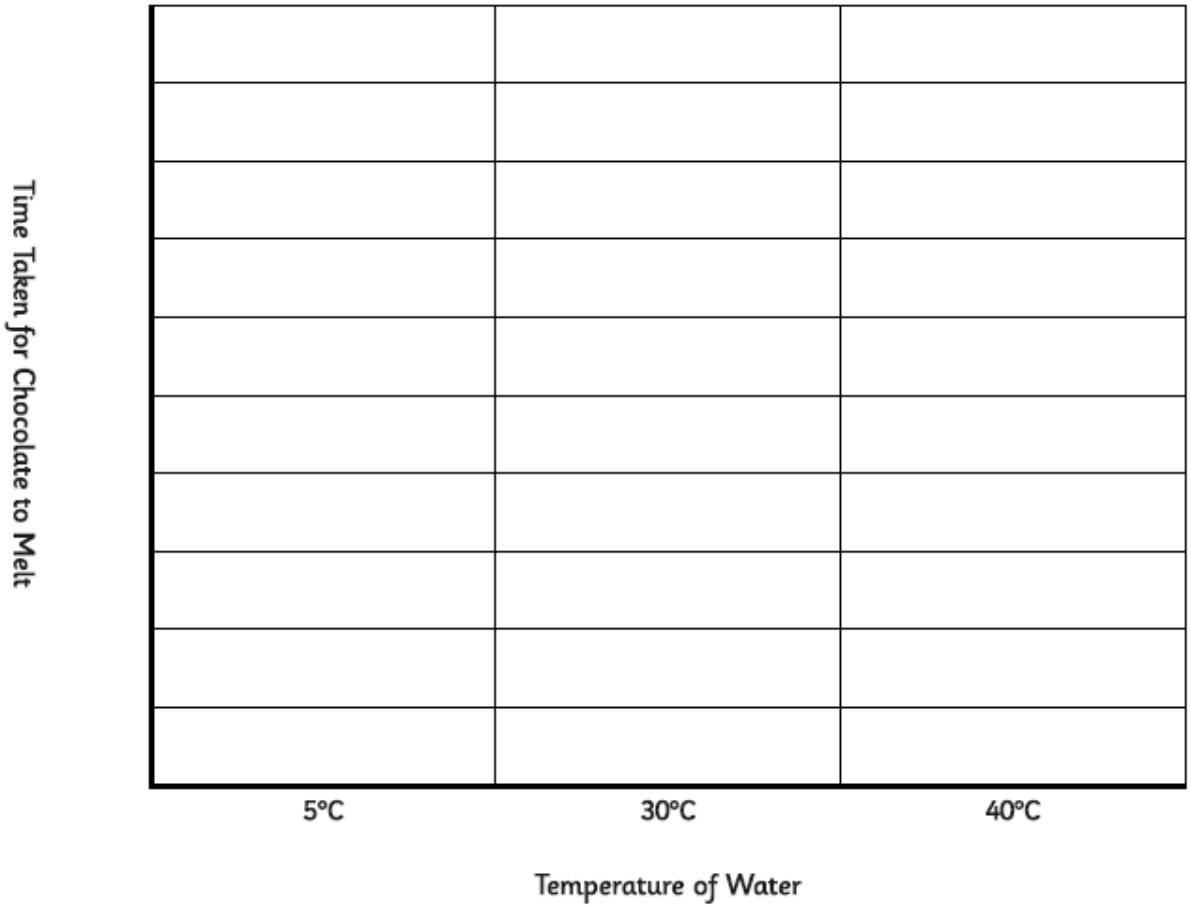
I will measure the…

I will measure the…

Complete this table with your results:

	Tray 1	Tray 2	Tray 3
Temperature of water			
Time taken for chocolate to melt			

Draw a bar chart using your results:



What is your conclusion? Can you tell Mr Spencer which temperature melts chocolate the fastest? Write a paragraph to explain using your findings to support your conclusion.