

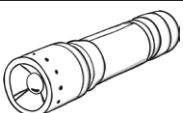
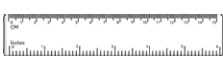
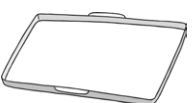


Chocolate Investigation



Can you help Maya find the temperature that melts chocolate the fastest? Plan your investigation then carry it out!

Equipment: Circle the things you will need.

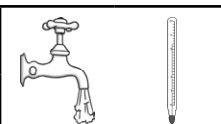
thermometer 	tape measure 	magnifying glass 
foil tins 	sand 	stopwatch 
torch 	chocolate 	water 
ruler 	pipette 	trays 

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.

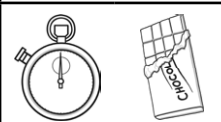
I will make sure each piece of chocolate is the same/a different size. I will use the same/different amounts of water in each tray. The temperatures of the water in each tray should be the same/different.

What will you measure and observe in this investigation? Use the pictures to help you.

I will measure the...



I will measure the...



I will observe the...



What do you predict will happen? Which temperature of water will melt the chocolate fastest?



Complete this table with your results:

Draw a bar chart using your results:



Use these words to help you.

chocolate	water	hot	cold	faster	slower	shorter	longer
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Chocolate Investigation



Can you help Maya find the temperature that melts chocolate the fastest? Plan your investigation then carry it out!

Equipment: Draw or write the things you will need.

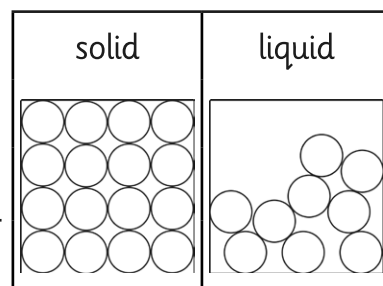
You will float the pieces of chocolate in foil tins on trays filled with different temperatures of water. How will you make sure your results are reliable? Think about what you will keep the same and what you will change.

What will you measure and observe in this investigation? Use the pictures to help you.

I will measure...

I will observe...

What do you predict will happen? Which temperature of water will melt the chocolate fastest? Why do you think this will happen? Refer to the behaviour of the particles in the pieces of chocolate in your answer.





Chocolate Investigation

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. Don't forget to label the axes.

What is your conclusion? Can you tell Maya which temperature melts chocolate the fastest? Can you explain why this happened?



Chocolate Investigation



Can you help Maya find the temperature that melts chocolate the fastest? Plan your investigation then carry it out!

Equipment: Draw or write the things you will need.

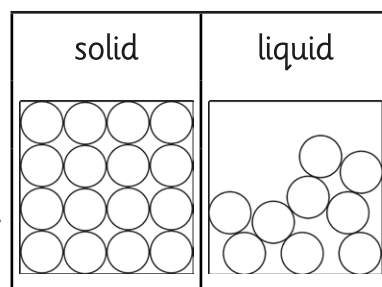
You will float the pieces of chocolate in foil tins on trays filled with different temperatures of water. How will you make sure your results are reliable? Think about what you will keep the same and what you will change.

What will you measure and observe in this investigation? Use the pictures to help you.

I will measure...

I will observe...

What do you predict will happen? Which temperature of water will melt the chocolate fastest? Why do you think this will happen? Refer to the behaviour of the particles in the pieces of chocolate in your answer.





Chocolate Investigation

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. Don't forget to label the axes. Choose suitable intervals for the 'Time taken for the chocolate to melt' axis.

What is your conclusion? Can you tell Maya which temperature melts chocolate the fastest? Can you explain why this happened by referring to the particles in the chocolate?