

You've no doubt experienced chocolate melting on a hot day, so let's do some experiments to recreate these conditions as well as a few others before comparing results and coming to some conclusions.









At what temperature does chocolate go from a solid to a liquid? Is it different for white and dark chocolate? Give this fun science experiment a try and find out!



- At a certain temperature your chocolate pieces undergo a physical change, from a solid to a liquid (or somewhere in between).
- On a hot day, sunlight is usually enough to melt chocolate, something you might have unfortunately already experienced.
- You can also reverse the process by putting the melted chocolate into a fridge or freezer where it will go from a liquid back to a solid.
- The chocolate probably melted quite fast if you tried putting a piece in your mouth, what does this tell you about the temperature of your body?
- For further testing and experiments you could compare white chocolate and dark chocolate, do they melt at the same temperature?
- How about putting a sheet of aluminum foil between a paper plate and a piece of chocolate in the sun, what happens then?



Peer/Family Feedback Once you have completed your experiments you must stick a photo of carrying out the task, complete the table and a summary of your findings.



Use the space below to research and explain what is meant by the term Chocolate Tempering, Give examples of temperatures.

Chocolate Test	Time Taken
Chocolate Test Shade	
Chocolate Test Sun	
Chocolate Test Mouth	
Chocolate Test Own Location	