



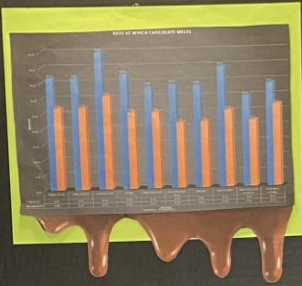
# WHAT BRAND OF CHOCOLATE REACHES ITS MELTING POINT THE FASTEST?

**Question**  
Which chocolate melts the fastest and how does the wrapper affect the melting process?

**Hypothesis**  
I predict the milk chocolate in the foil will melt the quickest because it's small and it is wrapped in foil therefore the foil would insulate all of the heat and cause it to melt faster. I also predict the wrapper plays a big part in the melting process by making it slower.

**Materials and equipment**  
1. Two each of Reese's pieces, small Reese's, Hershey's kiss, small Kit-kat, dark chocolate, milk chocolate, milk chocolate krackle, Mr. Goodbar, milk chocolate in plastic, and dove chocolate with caramel.  
2. Paper plates  
3. Lamp with 53 watt bulb  
4. Phone with camera and stand  
5. Pencil and paper for taking notes  
6. Phone with stopwatch

**Test**  
See which chocolate melts the fastest between 10 different kinds, and see how the wrapper affects the melting process by unwrapping each of the 10 different kinds and doing the experiment again.



**Conclusion**  
I was mostly correct... The milk chocolate in plastic had the fastest melting time over all of the other chocolates and the wrapper caused all chocolate to melt nearly 2 times as slow. In conclusion chocolate is very delicious and Messy experiment.

**REPORT**  
After spending multiple weeks wondering about what theme to do I finally landed on the idea "what brand of chocolate takes the longest to reach its melting point?" The first would be what chocolate reaches its melting point the quickest between 10 different brands and to see how the wrapper affects the melting process by unwrapping each of the 10 different kinds. After a lot of research we landed on the 10 brands: Reese's pieces, milk chocolate in foil, Krackle, Mr. Goodbar, milk chocolate, milk chocolate in plastic, Kit-Kat, Dove, Hershey's Kisses, small Kit-Kat, dark chocolate, milk chocolate in plastic, and Reese's pieces. After we found our 10 brands and dove chocolate with caramel. After we found our 10 brands in the wrappers, and another plate put all of them on the plate without the wrappers. Then I got a 53 watt bulb and put it in the lamp which we then lowered directly above the chocolates after a camera and one for a stopwatch. I turned on the lamp, started the stopwatch, and recorded the video all at the same time then we measured the chocolates every time they started melting and when they finished at the melting. I did not expect it to take the time that it took so every 10 minutes I lowered the lamp a little bit closer to the chocolate the entire process for both wrapped and unwrapped took about an hour and a half to set up complete and write down the research. In conclusion the Hershey's Kisses which we did not expect to last as long as it did took the longest at 45 minutes and 22 seconds. If you look at the chart you may notice the numbers are divided into the total minutes not minutes and seconds, after this we took through the video double check the time and were finished. My final words about this experiment do not let your sister or next to you because she will eat all of the melted chocolate.

Written Research  
By Dan Wires

