

The Cooling Curve of Water

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Name		School	
Class		Date	

Results

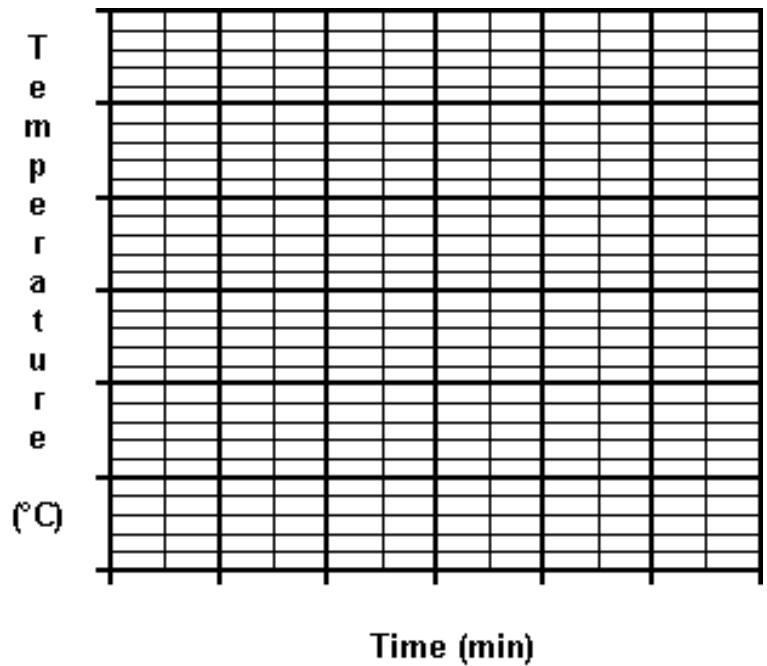
Time (min)	Temperature (°C)
0,0	
0,5	
1,5	
2,0	
2,5	
3,0	
3,5	
4,0	
4,5	
5,0	
5,5	
6,0	
6,5	
7,0	
7,5	
8,0	
8,5	
9,0	
9,5	
10,0	

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Graph of Results



Conclusion

What shape is your graph? Does it show that hot water loses heat at the same rate over 10 minutes or that the rate of heat loss changes with time?
N.B. A straight line would indicate a constant rate of heat loss. A curved line would indicate that the rate changes.

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What happens to the rate of heat loss as the water in the beaker cools down?

Do you think there will come a time when the water in the beaker is no longer losing heat?
Explain your answer.

If the water in the beaker stopped losing heat but you continued to take its temperature for a few minutes, what do you think would happen to the line of the graph?