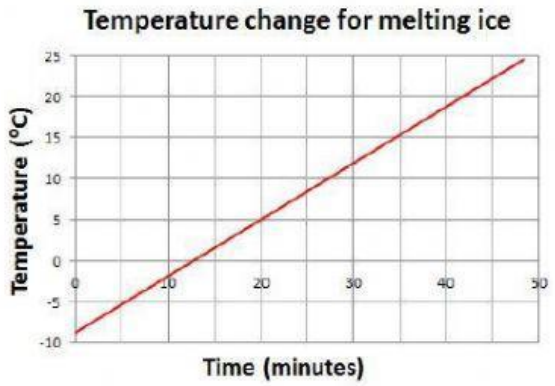
Melting Ice

If you took some ice out of a freezer and put it into an empty glass, the ice would start to melt. And if you waited long enough, all of the ice would eventually turn into water.

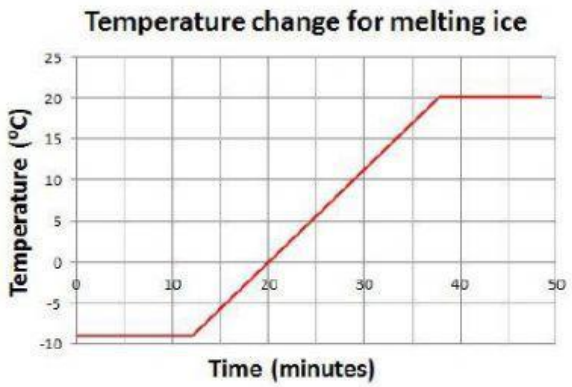
Now suppose that put a thermometer into the glass of ice and measured the temperature every minute as the ice melted. What would you notice about the temperature?

Look at the four graphs and their descriptions then answer the questions at the bottom of the page. This worksheet is unusual because you are also being asked to state **how sure you are** that your answer is correct. And you have the opportunity to explain why you chose that answer.

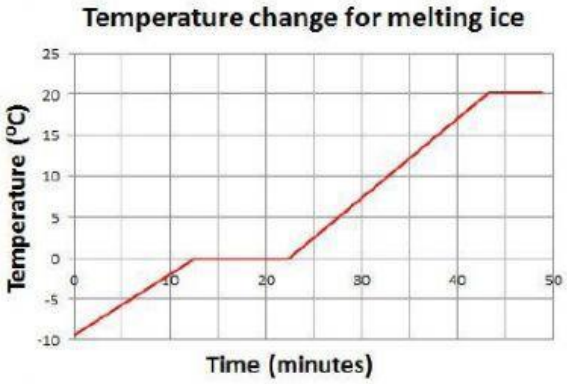
After you have finished this worksheet, select the option to send your answers to your teacher.



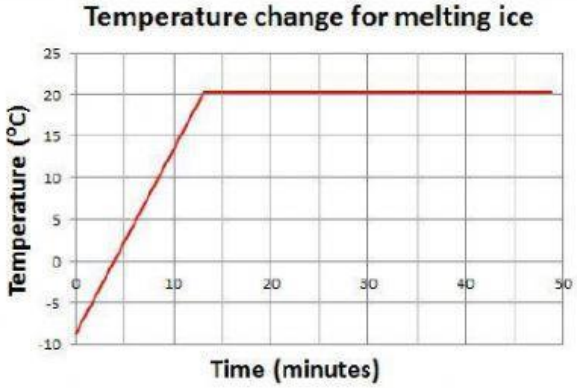
GRAPH A: The temperature will start to increase immediately and will keep going up.



GRAPH B: The temperature will stay at the same temperature for a while. It will then increase until it reaches room temperature.



GRAPH C: The temperature will start to increase then will stop increasing for a while. The temperature will then increase again until it reaches room temperature.



GRAPH D: The temperature will start to increase immediately and will keep increasing until it reaches room temperature.

Which graph shows the expected pattern of temperature change for melting ice?

Which other graph do you think could be correct?

Explain why you think the graph you chose is the correct graph.

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