

NEXT-TIME QUESTION

A piece of metal and a piece of wood of equal mass and equal temperature are removed from a hot oven and dropped onto blocks of ice. Which will melt more ice before cooling to the ice temperature?

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Answer: b

The wood will melt more ice because of its greater specific heat capacity. It releases more energy per degree than the lower-heat-capacity piece of iron.



Because of its lower conductivity, the piece of wood will take a longer time to melt its ice.

