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 When one end of a metal rod is put into a fire, ...  
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 two different ways. For a macroscopic object such as a book or a  
 ball, or a parcel of flowing water, it is simply given by  $\frac{1}{2}mv^2$ .  
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 The heat, i.e. transfer of thermal energy, from the air outside is  
 melting the ice. The thermal energy added is breaking the bonds  
 between the ice molecules and water is forming. While this is  
 happening the inside of the box stays at a constant \_\_\_\_.  
 Rebecca tells Brent that the energy needed to change the phase  
 of 1 kilogram of a substance is

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 absolute zero temperature the particles in a material \_\_\_\_ and  
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