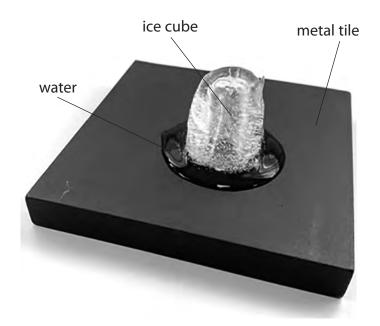
2 The photograph shows an ice cube placed on a metal tile.

The solid ice cube melts to become liquid water.



(a) Compare the arrangement of particles in a solid with the arrangement of particles in a liquid.

You may draw a diagram to help your answer.

(3)

movement of particles in a liquid.		(2)
After the ice cube has melted, the liquid water increa	ases in temperature.	
The water has a mass of 16 g and a specific heat capa	acity of 4200 J/kg °C.	
Calculate the energy transferred to the liquid water a	as it increases in temperature	
from 3 °C to 21 °C.		(3)
one	ergy transferred =	
	(Total for Question 2 = 8 ma	rks)