

## 8 Measuring thermal energy

### Revision QUIZ

Use these questions to help you revise (cover the right-hand side with a sheet of paper).

- 1 What unit is used to measure energy? (page 35)  
... joules (J)
- 2 Convert 4 kJ to joules. (p. 35)  
... 4000 J
- 3 What happens to the particles when a substance is heated? (p. 35, 26)  
... as the temperature rises, the particles move faster.
- 4 The specific heat capacity of water is 4200 J/kg°C. What does this mean? (p. 37)  
... it takes 4200 joules of energy to raise the temperature of 1 kg of water by 1°C.
- 5 How much energy is needed to heat 10 kg of water by 2°C? (p. 37)  
...  

Energy needed	=	specific heat capacity	×	mass	×	change in temperature
	=	4200	×	10	×	2
	=	84 000 J				(84 kJ)

# Study Guide Answers Measuring Thermal Energy

**Douglas Brandt**



## **Study Guide Answers Measuring Thermal Energy:**

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

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