



## Homework

10 mins approx

For Heating Houses  
ENERGY FOR THE HOME

### Specific Heat Capacity and Specific Latent Heat

1. How much energy is needed to heat 3kg of aluminium from 21°C to 50°C  
(SHC aluminium 990J/kg°C)  
(3 marks)
2. How much energy is needed to melt a 1,000,000kg iceberg at 0°C  
(SLH melting water 330,000J/kg)  
(3 marks)
3. How much water can be turned to water vapour at 100°C using 50,000J?  
(SLH boiling water 2,260,000J/kg)  
(3 marks)
4. What is the SHC of steel if it takes 525J to raise the temperature of 250g of steel by 5°C  
(3 marks)
5. If 3.5kg of lead cools by 6.5°C how much energy has it lost?  
(SHC lead 130J/kg°C)  
(3 marks)

Total 15 marks



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