



ASSESSMENT and
QUALIFICATIONS
ALLIANCE

Mark scheme
June 2003

GCSE

Science (Modular)
Double Award and Physics

Module 09

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Energy: Foundation Tier

Question	Key
One	1 – movement (kinetic energy) 2 – light 3 – heat (thermal energy) 4 – sound
Two	1 – fossil fuels 2 – nuclear fuels 3 – tides 4 – Sun's radiation
Three	1 – air 2 – movement (kinetic energy) 3 – electricity 4 – sound
Four	1 – infra red radiation 2 – particles 3 – temperature 4 – black surface
Five	1 – geothermal sites 2 – tidal barrages 3 – wind farms 4 – solar cells
Six	the kettle has a power of 2400 watts the kettle transfers 2400 joules of energy every second
Seven	fix shiny metal foil behind the heater lay a thick carpet on the floor
Eight	8.1 – A, 8.2 – D, 8.3 – D, 8.4 – C
Nine	9.1 – A, 9.2 – A, 9.3 – D, 9.4 – A
Ten	10.1 – B, 10.2 – B, 10.3 – A, 10.4 – B

Energy: Higher Tier

Question	Key
One	1 – geothermal sites 2 – tidal barrages 3 – wind farms 4 – solar cells
Two	1 – water behind a dam (hydroelectricity) 2 – wind 3 – nuclear 4 – gas
Three	fix shiny metal foil behind the heater lay a thick carpet on the floor
Four	P R
Five	5.1 – A, 5.2 – D, 5.3 – D, 5.4 – C
Six	6.1 – A, 6.2 – A, 6.3 – D, 6.4 – A
Seven	7.1 – B, 7.2 – B, 7.3 – A, 7.4 – B
Eight	8.1 – B, 8.2 – D, 8.3 – B, 8.4 – C
Nine	9.1 – A, 9.2 – D, 9.3 – A, 9.4 – C
Ten	10.1 – B, 10.2 – B, 10.3 – C, 10.4 – C