

ALLIANCE

Mark scheme June 2003

GCSE

Science (Modular) Single Award

Module 17

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Energy and Electricity: Foundation Tier

Question	Key
One	1 – movement (kinetic energy)
	2 – light
	3 – heat (thermal energy)
	4 – sound
Two	1 – air
1 WO	2 - movement (kinetic energy)
	3 - electricity
	4 – sound
Three	1 – switch
	2 – battery
	3 – resistor
	4 – lamp
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Four	1 – neutral pin
	2 – earth pin
	3 – fuse 4 – cable grip
Five	1 – geothermal sites
	2 - tidal barrages
	3 – wind farms
	4 – solar cells
Six	increase the current flowing through the wire
	increase the strength of the magnetic field
9	
Seven	fix shiny metal foil behind the heater
	lay a thick carpet on the floor
Eicht	81 D 82 D 82 C 84 A
Eight	8.1 – D, 8.2 – B, 8.3 – C, 8.4 – A
Nine	9.1 – B, 9.2 – B, 9.3 – A, 9.4 – B
	7.1 - D, 7.2 - D, 7.3 - A, 7.4 - D
Ten	10.1 – B, 10.2 – B, 10.3 – C, 10.4 – D

Energy and Electricity: Higher Tier

Question	Key
One	1 – geothermal sites
	2 – tidal barrages
	3 – wind farms
	4 – solar cells
Two	1 – the small wheel of the dynamo turns
	2 - this spins the magnet near the coil
	3 – a voltage is induced across the coil
	4 – this causes a current to flow
Three	fix shiny metal foil behind the heater
	lay a thick carpet on the floor
Four	Р
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Five	5.1 – D, 5.2 – B, 5.3 – C, 5.4 – A
Six	6.1 - B, 6.2 - B, 6.3 - A, 6.4 - B
Seven	7.1 - B, 7.2 - B, 7.3 - C, 7.4 - D
Eight	8.1 – B, 8.2 – D, 8.3 – B, 8.4 – C
Nine	9.1 - B, 9.2 - B, 9.3 - C, 9.4 - C
Ten	10.1 - A, 10.2 - D, 10.3, - D, 10.4 - D