

Mark scheme November 2004

GCSE

Science: (Modular)
Double Award and Physics

Module 09

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Energy: Foundation Tier

Question No.	KEY
One	1 – white
	2 – reduce
	3 – black
	4 – increase
T	
Two	1 – gravitational potential energy
	2 – movement (kinetic energy)
	3 – heat (thermal energy)
	4 – sound energy
Three	1 – wind farm
Timee	2 – tidal barrage
	3 – oil-fired power station
	4 – nuclear power station
	I indicate power station
Four	1 – solar energy
	2 – coal
	3 – tides
	4 – water pumped to a high level
Five	1 – 2.5
	2 - 360
	3 – 252
	4 - 0.7
G.	
Six	all energy which is transferred eventually ends up as heat
	the wasted energy becomes spread out
Caraca	the Coulors are seen a CO OF Liberratus
Seven	the fan has a power of 0.05 kilowatts the fan transfers electrical energy to movement (kinetic energy)
	the fair transfers electrical energy to inovellent (kinetic energy)
Eight	8.1 – A, 8.2 – B, 8.3 – B, 8.4 – D
Ligit	0.1 11, 0.2 D, 0.3 D, 0.7 D
Nine	9.1 – A, 9.2 – B, 9.3 – A, 9.4 – D
1,1110	2.1 2.5 2.2 25, 2.2 11, 2.1 2
Ten	10.1 - B, 10.2 - A, 10.3 - C, 10.4 - C

Energy: Higher Tier

Question No.	KEY
One	1 - 2.5
	2 – 360
	$\begin{vmatrix} 3 - 252 \\ 4 - 0.7 \end{vmatrix}$
	7-0.7
Two	1 – radiation
	2 – convection
	3 – vibration
	4 – conduction
Three	the fan has a power of 0.05 kilowatts
Tince	the fan transfers electrical energy to movement (kinetic energy)
	(
Four	costly safety features make a nuclear station expensive to build
	decommissioning a nuclear power station is expensive
Five	51 A 52 D 52 D 54 D
rive	5.1 – A, 5.2 – B, 5.3 – B, 5.4 – D
Six	6.1 – A, 6.2 – B, 6.3 – A, 6.4 – D
Seven	7.1 – B, 7.2 – A, 7.3 – C, 7.4 – C
Eight	8.1 – B, 8.2 – C, 8.3 – B, 8.4 – A
Nine	91_D 92_R 93_R 94_C
TAILC	9.1 – D, 9.2 – B, 9.3 – B, 9.4 – C
Ten	10.1 - C, 10.2 - C, 10.3, - C, 10.4 - B