

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
Two	1 – gravitational potential energy 2 – movement (kinetic energy) 3 – heat (thermal energy) 4 – sound energy
Three	1 – wind farm 2 – tidal barrage 3 – oil-fired power station 4 – nuclear 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
Six	all energy which is transferred eventually ends up as heat the wasted energy becomes spread out
Seven	the fan has a power of 0.05 kilowatts the fan transfers electrical energy to movement (kinetic energy)
Eight	8.1 – A, 8.2 – B, 8.3 – B, 8.4 – D
Nine	9.1 – A, 9.2 – B, 9.3 – A, 9.4 – D
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 3 – 252 4 – 0.7
Two	1 – radiation 2 – convection 3 – vibration 4 – conduction
Three	the fan has a power of 0.05 kilowatts 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	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	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