

GCSE

Science (Modular) Double Award and Physics

Module 09

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Energy: Foundation Tier

Question No.	KEY
One	1 – light 2 – movement (kinetic energy) 3 – sound 4 – heat (thermal energy)
Two	1 – radiation 2 – reflection 3 – conduction 4 – convection
Three	1 – uranium 2 – steam 3 – turbine 4 – generator
Four	1 – draught excluder 2 – fibreglass insulation 3 – thick carpet 4 – double glazing
Five	1 – produces harmful waste gases 2 – may cover farmland and forest with water 3 – produces radioactive waste 4 – often on hills and can be unsightly
Six	the efficiency of the lamp is 0.25 (25%) the power of the lamp is 100 W
Seven	R – solar cells are often the best source of electricity in remote locations S – solar cells are often used in calculators
Eight	8.1 – D, 8.2 – C, 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 – A, 10.3 – B, 10.4 – C

Energy: Higher Tier

Question No.	KEY
One	1 – produces harmful waste gases 2 – may cover farmland and forest with water 3 – produces radioactive waste 4 – often on hills and can be unsightly
Two	1 – increases 2 – decreases 3 – rises 4 – is unchanged
Three	R – solar cells are often the best source of electricity in remote locations S – solar cells are often used in calculators
Four	P S
Five	5.1 – D, 5.2 – C, 5.3 – B, 5.4 – C
Six	6.1 – B, 6.2 – B, 6.3 – C, 6.4 – C
Seven	7.1 – A, 7.2 – A, 7.3 – B, 7.4 – C
Eight	8.1 – A, 8.2 – B, 8.3 – A, 8.4 – D
Nine	9.1 – A, 9.2 – A, 9.3 – B, 9.4 – D
Ten	10.1 – D, 10.2 – B, 10.3 – A, 10.4 – B