

GCSE

Science (Modular) Double Award and Physics

Module 09

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Energy: Foundation Tier

Question No.	KEY
One	1 – kettle 2 – torch 3 – food mixer 4 – radio
Two	1 – radiation 2 – insulation 3 – convection 4 – conduction
Three	1 – wind farms 2 – hydroelectric schemes 3 – geothermal schemes 4 – solar cells
Four	1 – fossil fuels 2 – hydroelectric schemes 3 – wind farms 4 – nuclear fuels
Five	1 – water flows through the sluice gates 2 – water is trapped behind the barrage 3 – water flows through the turbo-generators 4 – electricity is supplied to the National Grid
Six	it is not practical to replace batteries on a satellite there is an almost continuous supply of solar energy in space
Seven	they are usually built in mountainous areas they can be used in reverse to store energy from surplus electricity
Eight	8.1 – D, 8.2 – A, 8.3 – B, 8.4 – B
Nine	9.1 – D, 9.2 – B, 9.3 – A, 9.4 – C
Ten	10.1 – D, 10.2 – B, 10.3 – A, 10.4 – D

Energy: Higher Tier

Question No.	KEY
One	1 – water flows through the sluice gates 2 – water is trapped behind the barrage 3 – water flows through the turbo-generators 4 – electricity is supplied to the National Grid
Two	1 – nuclear 2 – wind 3 – coal 4 – solar
Three	they are usually built in mountainous areas they can be used in reverse to store energy from surplus electricity
Four	changes in density result in energy transfer warm regions expand and rise
Five	5.1 – D, 5.2 – A, 5.3 – B, 5.4 – B
Six	6.1 – D, 6.2 – B, 6.3 – A, 6.4 – C
Seven	7.1 – D, 7.2 – B, 7.3 – A, 7.4 – D
Eight	8.1 – C, 8.2 – A, 8.3 – A, 8.4 – B
Nine	9.1 – C, 9.2 – B, 9.3 – C, 9.4 – C
Ten	10.1 – B, 10.2 – C, 10.3 – D, 10.4 – D