

## GCSE

### Science (Modular) Single Award and Physics

## Module 17

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**Energy and Electricity: Foundation Tier**

Question No.	KEY
One	1 – lamp 2 – fuse 3 – thermistor 4 – variable resistor
Two	1 – brown 2 – white 3 – blue 4 – green and yellow
Three	1 – radiation 2 – insulation 3 – convection 4 – conduction
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	Q R
Seven	A has the same frequency as C B has the same peak voltage as A
Eight	8.1 – D, 8.2 – A, 8.3 – B, 8.4 – B
Nine	9.1 – D, 9.2 – C, 9.3 – C, 9.4 – C
Ten	10.1 – D, 10.2 – B, 10.3 – A, 10.4 – D

**Energy and Electricity: 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 – R 2 – P 3 – S 4 – Q
Three	A has the same frequency as C B has the same peak voltage as A
Four	the brushes change a.c. to d.c. when the coil spins faster the frequency of the a.c. generated decreases
Five	5.1 – D, 5.2 – A, 5.3 – B, 5.4 – B
Six	6.1 – D, 6.2 – C, 6.3 – C, 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