

GCSE

Science: (Modular)
Double Award and Physics

Module 10

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Electricity: Foundation Tier

Question No.	KEY
One	1 – thermistor 2 – fuse 3 – variable resistor 4 – LDR
Two	1 – insulates the plug 2 – connects metal case of appliance to earth 3 – wire inside melts if current is too high 4 – holds the cable firmly
Three	1 – potential difference (voltage) 2 – frequency 3 – power 4 – current
Four	1 – motor 2 – circuit breaker 3 – photocopier 4 – smoke precipitator
Five	1 – thermistor 2 – LDR 3 – filament lamp 4 – diode
Six	J K
Seven	P R
Eight	8.1 – C, 8.2 – B, 8.3 – C, 8.4 – A
Nine	9.1 – A, 9.2 – B, 9.3 – C, 9.4 – C
Ten	10.1 – C, 10.2 – C, 10.3 – A, 10.4 – D

Electricity: Higher Tier

Question No.	KEY
One	1 – thermistor 2 – LDR 3 – filament lamp 4 – diode
Two	1 – live terminal of the mains supply 2 – model generator 3 – a 30 V battery 4 – two 30 V batteries in series
Three	P R
Four	the reading on V2 is twice the reading on V1 the reading on V3 is three times the reading on V1
Five	5.1 – C, 5.2 – B, 5.3 – C, 5.4 – A
Six	6.1 – A, 6.2 – B, 6.3 – C, 6.4 – C
Seven	7.1 – C, 7.2 – C, 7.3 – A, 7.4 – D
Eight	8.1 – B, 8.2 – B, 8.3 – B, 8.4 – B
Nine	9.1 – C, 9.2 – D, 9.3 – D, 9.4 – B
Ten	10.1 – B, 10.2 – C, 10.3 – B, 10.4 – B