

Mark scheme

June 2006

GCSE

Science: (Modular)
Single Award

Module 17

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Energy & Electricity : Foundation Tier

Question No.	KEY
One	1 – earth connection 2 – cable grip 3 – neutral connection 4 – live connection
Two	1 – electrical 2 – light 3 – movement 4 – heat
Three	1 – variable resistor 2 – thermistor 3 – LDR (light-dependent resistor) 4 – diode
Four	1 – the core of a cable 2 – the pins on a plug 3 – the covering on a cable 4 – the case of a plug
Five	1 – torch 2 – cordless drill 3 – loudspeaker 4 – microphone
Six	Y gives off less than X Z gives off less than X
Seven	L M
Eight	8.1 – D, 8.2 – B, 8.3 – B, 8.4 – A
Nine	9.1 – A, 9.2 – C, 9.3 – A, 9.4 – D
Ten	10.1 – B, 10.2 – D, 10.3 – C, 10.4 – B

Energy & Electricity : Higher Tier

Question No.	KEY
One	1 – torch 2 – cordless drill 3 – loudspeaker 4 – microphone
Two	1 – the dynamo’s small wheel turns 2 – this spins the magnet near the coil 3 – a voltage is induced across the coil 4 – this causes a current to flow
Three	L M
Four	collisions between particles the movement of free electrons
Five	5.1 – D, 5.2 – B, 5.3 – B, 5.4 – A
Six	6.1 – A, 6.2 – C, 6.3 – A, 6.4 – D
Seven	7.1 – B, 7.2 – D, 7.3 – C, 7.4 – B
Eight	8.1 – B, 8.2 – C, 8.3 – B, 8.4 – A
Nine	9.1 – A, 9.2 – B, 9.3 – D, 9.4 – C
Ten	10.1 – C, 10.2 – B, 10.3 – C, 10.4 – B