



ASSESSMENT and  
QUALIFICATIONS  
ALLIANCE

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Mark scheme  
November 2003

# GCSE

## Science (Modular) Single Award

### Module 17

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## Energy and Electricity: Foundation Tier

Question	Key
One	1 – light 2 – movement (kinetic energy) 3 – heat (thermal energy) 4 – sound
Two	1 – radiation 2 – convection 3 – conduction 4 – insulation
Three	1 – blue plastic 2 – green and yellow plastic 3 – brown plastic 4 – white plastic
Four	1 – tidal 2 – gas-fired 3 – nuclear 4 – hydroelectric
Five	1 – hydroelectric 2 – solar cells 3 – tidal 4 – geothermal
Six	no fuel is used no sulphur dioxide is produced
Seven	if the wire moved upwards, the ammeter will give a negative reading if the wire stops, the ammeter will read zero
Eight	8.1 – A, 8.2 – C, 8.3 – B, 8.4 – C
Nine	9.1 – D, 9.2 – B, 9.3 – C, 9.4 – A
Ten	10.1 – C, 10.2 – C, 10.3 – A, 10.4 – B

**Energy and Electricity: Higher Tier**

Question	Key
One	1 – hydroelectric 2 – solar cells 3 – tidal 4 – geothermal
Two	1 – neutral 2 – earth 3 – live 4 – negative
Three	if the wire moved upwards, the ammeter will give a negative reading if the wire stops, the ammeter will read zero
Four	Q S
Five	5.1 – A, 5.2 – C, 5.3 – B, 5.4 – C
Six	6.1 – D, 6.2 – B, 6.3 – C, 6.4 – A
Seven	7.1 – C, 7.2 – C, 7.3 – A, 7.4 – B
Eight	8.1 – D, 8.2 – A, 8.3 – C, 8.4 – C
Nine	9.1 – B, 9.2 – D, 9.3 – C, 9.4 – C
Ten	10.1 – B, 10.2 – D, 10.3 – A, 10.4 – C