

# Mark scheme March 2005

## **GCSE**

Science: (Modular)
Double Award and Physics

## Module 09

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#### **Energy: Foundation Tier**

Question No.	KEY
One	1 – conduction
	2 – convection currents
	3 – loss of warm air
	4 – radiation
T	
Two	1 – kinetic (movement) to electrical
	2 – electrical to gravitational potential
	3 – light to electrical
	4 – electrical to heat
Three	1 – uranium
	2 – coal
	3 - gas
	5 – gas 4 – wood
	4 - wood
Four	1 – water
1001	2 – steam
	2 – steam 3 – turbine
	4 – generator
Five	1 – solar panel on a roof
	2 – fins at the back of a refrigerator
	3 – survival bag used by a mountain rescue team
	4 – back of an electric fire
Six	Q
Six	S
Seven	plutonium
	uranium
T. 1	
Eight	1 – A, 2 – D, 3 – D, 4 – D
Nine	1 – C, 2 – B, 3 – A, 4 – D
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Ten	1 – B, 2 – A, 3 – C, 4 – A

### **Energy: Higher Tier**

Question No.	KEY
One	1 – solar panel on a roof
	2 – fins at the back of a refrigerator
	3 – survival bag used by a mountain rescue team
	4 – back of an electric fire
Two	1 – particles
	2 – waves
	3-ions
	4 – free electrons
Three	plutonium
	uranium
E	and an exact disposal course land town and an extension and the second
Four	nuclear waste disposal causes long-term environmental problems
	the cost of decommissioning nuclear power plants is very high
Five	1 4 2 D 2 D 4 D
Five	1 – A, 2 – D, 3 – D, 4 – D
Six	1 C 2 P 2 A 4 D
SIX	1 - C, 2 - B, 3 - A, 4 - D
Seven	1 – B, 2 – A, 3 – C, 4 – A
Eight	1 – B, 2 – C, 3 – C, 4 – C
Nine	1 - C, 2 - A, 3 - C, 4 - D
Ten	1 – B, 2 – C, 3 – C, 4 – D