



ASSESSMENT and  
QUALIFICATIONS  
ALLIANCE

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Mark scheme  
November 2003

GCSE

Physics (Modular)

Module 23

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**Physics in Action: Foundation Tier**

Question	Key
One	1 – LDR 2 – relay 3 – LED 4 – motor
Two	1 – output device 2 – input sensor 3 – processor 4 – relay
Three	1 – NOT gates 2 – variable resistors 3 – thermistors 4 – heaters
Four	1 – capacitor 2 – relay 3 – OR gate 4 – LED
Five	1 – potential divider 2 – control system 3 – variable resistor 4 – processor
Six	the greater the value of the capacitor, the quicker the capacitor charges up when a capacitor is charging, the voltage across it decreases
Seven	lines W and Y are correct line Z is the only line which is wrong
Eight	8.1 – A, 8.2 – B, 8.3 – D, 8.4 – C
Nine	9.1 – B, 9.2 – C, 9.3 – B, 9.4 – B
Ten	10.1 – D, 10.2 – D, 10.3 – B, 10.4 – C

**Physics in Action: Higher Tier**

Question	Key
One	1 – potential divider 2 – control system 3 – variable resistor 4 – processor
Two	1 – resistance 2 – light intensity 3 – input voltage 4 – current
Three	lines W and Y are correct line Z is the only line which is wrong
Four	the point labelled P is the focus of the lens the ray diagram shows a magnifying glass
Five	5.1 – A, 5.2 – B, 5.3 – D, 5.4 – C
Six	6.1 – B, 6.2 – C, 6.3 – B, 6.4 – B
Seven	7.1 – D, 7.2 – D, 7.3 – B, 7.4 – C
Eight	8.1 – A, 8.2 – D, 8.3 – C, 8.4 – D
Nine	9.1 – B, 9.2 – A, 9.3 – C, 9.4 – B
Ten	10.1 – D, 10.2 – D, 10.3, – A, 10.4 – C