



ASSESSMENT and  
QUALIFICATIONS  
ALLIANCE

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Mark scheme  
March 2003

GCSE

Physics (Modular)

Module 23

**Physics in Action : Foundation Tier**

Question	Key
One	1 – OR gate 2 – NOT gate 3 – capacitor 4 – relay
Two	1 – LDR 2 – buzzer 3 – AND gate 4 – capacitor
Three	1 – Q 2 – P 3 – S 4 – R
Four	1 – switch 2 – output 3 – coil 4 – processor
Five	1 – current 2 – conductor 3 – voltage 4 – resistance
Six	Q S
Seven	the camera uses a converging lens the image is nearer to the lens than the object
Eight	8.1 – C, 8.2 – C, 8.3 – C, 8.4 – B
Nine	9.1 – B, 9.2 – C, 9.3 – B, 9.4 – A
Ten	10.1 – A, 10.2 – C, 10.3 – C, 10.4 – C

**Physics in Action : Higher Tier**

Question	Key
One	1 – current 2 – conductor 3 – voltage 4 – resistance
Two	1 – output device 2 – acts as a switch 3 – controls the circuit's sensitivity 4 – input sensor
Three	the camera uses a converging lens the image is nearer to the lens than the object
Four	their batteries often need charging they need a network of unsightly transmission masts
Five	5.1 – C, 5.2 – C, 5.3 – C, 5.4 – B
Six	6.1 – B, 6.2 – C, 6.3 – B, 6.4 – A
Seven	7.1 – A, 7.2 – C, 7.3 – C, 7.4 – C
Eight	8.1 – A, 8.2 – C, 8.3 – A, 8.4 – D
Nine	9.1 – B, 9.2 – C, 9.3 – D, 9.4 – A
Ten	10.1 – B, 10.2 – A, 10.3, – D, 10.4 – A