

GCSE

Science: (Modular)
Physics

Module 23

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Physics in Action : Foundation Tier

Question No.	KEY
One	1 – resistor 2 – LED (light-emitting diode) 3 – capacitor 4 – NOT gate
Two	1 – LED (light-emitting diode) 2 – NOT gate 3 – resistor 4 – capacitor
Three	1 – lens 2 – converge 3 – focus 4 – burn
Four	1 – object 2 – lens 3 – image 4 – film
Five	1 – must be a NOT gate 2 – could be an AND gate or an OR gate 3 – must be an OR gate 4 – must be an AND gate
Six	P R
Seven	J N
Eight	8.1 – C, 8.2 – B, 8.3 – D, 8.4 – A
Nine	9.1 – C, 9.2 – A, 9.3 – C, 9.4 – B
Ten	10.1 – D, 10.2 – A, 10.3 – C, 10.4 – A

Physics in Action : Higher Tier

Question No.	KEY
One	1 – must be a NOT gate 2 – could be an AND gate or an OR gate 3 – must be an OR gate 4 – must be an AND gate
Two	1 – resistance of the LDR becomes very large 2 – potential difference across X becomes very small 3 – NOT gate output goes to high 4 – current flows through the LED
Three	J N
Four	V W
Five	5.1 – C, 5.2 – B, 5.3 – D, 5.4 – A
Six	6.1 – C, 6.2 – A, 6.3 – C, 6.4 – B
Seven	7.1 – D, 7.2 – A, 7.3 – C, 7.4 – A
Eight	8.1 – B, 8.2 – B, 8.3 – B, 8.4 – A
Nine	9.1 – B, 9.2 – A, 9.3 – D, 9.4 – A
Ten	10.1 – B, 10.2 – B, 10.3 – B, 10.4 – A