

# Mark scheme November 2005 

## GCSE

# Science: (Modular) Double Award and Physics 

## Module 10

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## Electricity : Foundation Tier

| Question No. | KEY |
| :---: | :---: |
| One | $\begin{aligned} & 1-\text { switch } \\ & 2 \text { - battery } \\ & 3 \text { - lamp } \\ & 4 \text { - resistor } \end{aligned}$ |
| Two | 1 - repelled <br> 2 - positively charged <br> 3 - attracted <br> 4 - negatively charged |
| Three | $\begin{aligned} & \hline 1 \text { - neutral } \\ & 2-\text { brass } \\ & 3 \text { - fuse } \\ & 4 \text { - live } \\ & \hline \end{aligned}$ |
| Four | 1 - power stations <br> 2 - the voltage is increased <br> 3 - people's homes <br> 4 - the voltage is decreased |
| Five | $\begin{aligned} & 1-6.0 \text { volts } \\ & 2-1.0 \text { volts } \\ & 3-5.0 \text { volts } \\ & 4-3.0 \text { volts } \end{aligned}$ |
| Six | $\begin{aligned} & \operatorname{lamp~P} \\ & \operatorname{lamp} \text { Q } \\ & \hline \end{aligned}$ |
| Seven | Arrangement J Arrangement M |
| Eight | $8.1-\mathrm{A}, 8.2-\mathrm{C}, 8.3-\mathrm{C}, 8.4-\mathrm{C}$ |
| Nine | 9.1-C, $9.2-\mathrm{B}, ~ 9.3-\mathrm{A}, ~ 9.4-\mathrm{D}$ |
| Ten | 10.1 - C, 10.2-A, $10.3-\mathrm{C}, 10.4$ - |

## Electricity : Higher Tier

| Question <br> No. | KEY |
| :--- | :--- |
| One | $1-6.0$ volts <br> $2-1.0$ volts <br> $3-5.0$ volts <br> $4-3.0$ volts |
| Two | $1-\mathrm{P}$ <br> $2-\mathrm{S}$ <br> $3-\mathrm{R}$ <br> $4-\mathrm{Q}$ |
| Three | Arrangement J <br> Arrangement M |
| Four | K <br> N |
| Five | $5.1-\mathrm{A}, \quad 5.2-\mathrm{C}, \quad 5.3-\mathrm{C}, \quad 5.4-\mathrm{C}$ |
| Six | $6.1-\mathrm{C}, \quad 6.2-\mathrm{B}, \quad 6.3-\mathrm{A}, \quad 6.4-\mathrm{D}$ |
| Seven | $7.1-\mathrm{C}, \quad 7.2-\mathrm{A}, \quad 7.3-\mathrm{C}, \quad 7.4-\mathrm{A}$ |
|  | $8.1-\mathrm{D}, 8.2-\mathrm{C}, \quad 8.3-\mathrm{C}, \quad 8.4-\mathrm{C}$ |
| Eight | 8.1 |
| Nine | $9.1-\mathrm{B}, \quad 9.2-\mathrm{B}, \quad 9.3-\mathrm{B}, \quad 9.4-\mathrm{A}$ |
|  |  |
| Ten | $10.1-\mathrm{A}, \quad 10.2-\mathrm{B}, \quad 10.3,-\mathrm{A}, \quad 10.4-\mathrm{B}$ |

