



## Science KS3 Assessment Descriptors

Year 7

| Level      | Descriptors                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               |
|------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Advanced   | <ul style="list-style-type: none"> <li>• Can confidently recall scientific facts and make links between topics and concepts.</li> <li>• Can accurately use and define scientific words both verbally and written.</li> <li>• Can correctly identify apparatus and how to use it and can suggest alternate apparatus to improve accuracy of practical tasks.</li> <li>• Can describe the trend of a graph or data and suggest reasons for the trend.</li> <li>• Can plot data on a graph (bar and line) and where appropriate draw a line of best fit, with support needed to create scales.</li> <li>• Can confidently identify independent, dependent and control variables.</li> <li>• Can complete simple calculations, correctly identify the units, and with support rearrange equations.</li> </ul> |
| Secure     | <ul style="list-style-type: none"> <li>• Can often recall basic scientific facts related to the topic studied and begin to make simple links between ideas.</li> <li>• Can define simple scientific words, though use may be inconsistent or occasionally incorrect.</li> <li>• Can confidently identify apparatus and how to use it for experiments.</li> <li>• Can identify a trend from a data table or graph.</li> <li>• Can plot data on a graph (bar and line) and where appropriate draw a line of best fit, with support needed to create scales.</li> <li>• Can identify independent and dependent variables involved in an investigation and can make suggestions for control variables.</li> <li>• Can complete simple calculations and identify the units.</li> </ul>                         |
| Developing | <ul style="list-style-type: none"> <li>• Can often recall a small number of scientific facts related to the topic studied.</li> <li>• Can use scientific words both verbally and written, with increasing accuracy.</li> <li>• Can identify apparatus and suggest which is appropriate for an experiment.</li> <li>• With support can identify a trend from a data table or graph.</li> <li>• Can plot data on a graph (bar and line) and where appropriate draw a line of best fit, with support needed to create scales.</li> <li>• With support, can identify variables involved in an investigation.</li> <li>• With support can complete simple calculations and identify the units.</li> </ul>                                                                                                      |
| Foundation | <ul style="list-style-type: none"> <li>• With support, can recall a small number of simple scientific facts (e.g. names of basic equipment and processes).</li> <li>• Can recognise and repeat scientific words, though definitions may not be accurate or complete.</li> <li>• Can identify apparatus used in an experiment.</li> <li>• Can identify single results or observations from tables and graphs.</li> <li>• With significant support can plot data on a graph (bar and line) and where appropriate draw a line of best fit.</li> <li>• With significant support, can identify variables involved in an investigation.</li> <li>• With significant support can complete simple calculations and state units, though units may not be accurate.</li> </ul>                                      |

Year 8

| Level      | Descriptors                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               |
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| Secure     | <ul style="list-style-type: none"> <li>• Can confidently recall scientific facts and make links between topics and concepts.</li> <li>• Can accurately use and define scientific words both verbally and written.</li> <li>• Can correctly identify apparatus and how to use it and can suggest alternate apparatus to improve accuracy of practical tasks.</li> <li>• Can describe the trend of a graph or data and suggest reasons for the trend.</li> <li>• Can plot data on a graph (bar and line) and where appropriate draw a line of best fit, with support needed to create scales.</li> <li>• Can confidently identify independent, dependent and control variables.</li> <li>• Can complete simple calculations, correctly identify the units, and with support rearrange equations.</li> </ul> |
| Developing | <ul style="list-style-type: none"> <li>• Can often recall basic scientific facts related to the topic studied and begin to make simple links between ideas.</li> <li>• Can define simple scientific words, though use may be inconsistent or occasionally incorrect.</li> <li>• Can confidently identify apparatus and how to use it for experiments.</li> <li>• Can identify a trend from a data table or graph.</li> <li>• Can plot data on a graph (bar and line) and where appropriate draw a line of best fit, with support needed to create scales.</li> <li>• Can identify independent and dependent variables involved in an investigation and can make suggestions for control variables.</li> <li>• Can complete simple calculations and identify the units.</li> </ul>                         |
| Foundation | <ul style="list-style-type: none"> <li>• Can often recall a small number of scientific facts related to the topic studied.</li> <li>• Can use scientific words both verbally and written, with increasing accuracy.</li> <li>• Can identify apparatus and suggest which is appropriate for an experiment.</li> <li>• With support can identify a trend from a data table or graph.</li> <li>• Can plot data on a graph (bar and line) and where appropriate draw a line of best fit, with support needed to create scales.</li> <li>• With support, can identify variables involved in an investigation.</li> <li>• With support can complete simple calculations and identify the units.</li> </ul>                                                                                                      |

Year 9

| Level      | Descriptors                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                |
|------------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Advanced   | <ul style="list-style-type: none"> <li>• Confidently and accurately recalls scientific knowledge independently, making detailed links between ideas across different topics.</li> <li>• Can always define key scientific words and uses them consistently in both written and verbal answers.</li> <li>• Can correctly identify apparatus and how to use it and can suggest alternate apparatus to improve accuracy of practical tasks based on apparatus resolution.</li> <li>• Can confidently plot data on a graph, draw lines of best fit, and extrapolate from the graph to state information.</li> <li>• Can interpret complex data (graphs, trends and anomalies give data to support conclusions and explain the results with scientific reasoning.</li> <li>• Can confidently identify independent and dependent variables from data or written information. Can state control variables and how to control them.</li> <li>• Can accurately calculate multistep calculations, including unit conversions and rearranging of equations.</li> </ul> |
| Secure     | <ul style="list-style-type: none"> <li>• Can confidently recall scientific facts and make links between topics and concepts.</li> <li>• Can accurately use and define scientific words both verbally and written.</li> <li>• Can correctly identify apparatus and how to use it and can suggest alternate apparatus to improve accuracy of practical tasks.</li> <li>• Can describe the trend of a graph or data and suggest reasons for the trend.</li> <li>• Can plot data on a graph (bar and line) and where appropriate draw a line of best fit, with support needed to create scales.</li> <li>• Can confidently identify independent, dependent and control variables.</li> <li>• Can complete simple calculations, correctly identify the units, and with support rearrange equations.</li> </ul>                                                                                                                                                                                                                                                  |
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| Foundation | <ul style="list-style-type: none"> <li>• Can often recall basic scientific facts related to the topic studied and begin to make simple links between ideas.</li> <li>• Can define simple scientific words, though use may be inconsistent or occasionally incorrect.</li> <li>• Can confidently identify apparatus and how to use it for experiments.</li> <li>• Can identify a trend from a data table or graph.</li> <li>• Can plot data on a graph (bar and line) and where appropriate draw a line of best fit, with support needed to create scales.</li> <li>• Can identify independent and dependent variables involved in an investigation and can make suggestions for control variables.</li> </ul>                                                                                                                                                                                                                                                                                                                                              |

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|--|------------------------------------------------------------------------------------------------------------|
|  | <ul style="list-style-type: none"><li>• Can complete simple calculations and identify the units.</li></ul> |
|--|------------------------------------------------------------------------------------------------------------|