

| Level | Description |
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| 5 | <p>The student has provided clear and convincing evidence that they:</p> <ul style="list-style-type: none"> ● completed a scientific investigation with a comprehensive understanding of fair testing* ● had shown a high level of originality in the idea and/or creativity in the investigative methods ● have an in-depth understanding of the relevant science concepts* ● collected wide-ranging, relevant background information to make appropriate predictions ● selected suitable materials and equipment to collect relevant and sufficient data ● recorded data and included appropriate graphical displays with or without the use of digital technologies ● analysed data, identified detailed trends and relationships, suggested highly plausible explanations for the results and made highly valid conclusions ● extensively detailed the progress of the investigation in a logbook* ● acknowledged the nature of all assistance given in conducting and communicating the investigation* ● completed a well-structured and coherent report, using language that reflects the student’s own understanding, and is appropriate for the intended audience* |
| 4 | <p>The student has provided substantial evidence that they:</p> <ul style="list-style-type: none"> ● completed a scientific investigation with a thorough understanding of fair testing ● had shown originality and/or creativity in the investigative methods ● have a clear understanding of the relevant scientific concepts* ● Collected relevant background information to make an appropriate prediction ● Selected suitable materials and equipment to collect relevant and sufficient data ● recorded data and included appropriate graphical displays with or without the use of digital technologies ● analysed data, identified trends and relationships, suggested plausible explanations for the results and made valid conclusions ● clearly detailed the progress of the investigation in a logbook* ● acknowledged all assistance given in conducting and communicating the investigation* ● completed a well-structured and coherent report, using language that reflects the students own understanding, and is appropriate for the intended audience* |

| Level | Description |
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| 3 | <p>The student has provided evidence that they:</p> <ul style="list-style-type: none"> ● completed a science investigation with a reasonable understanding of fair testing ● had shown little originality and/or creativity in the investigative methods ● had some understanding of the relevant science concepts* ● collected some relevant background information to make a prediction ● selected suitable materials and equipment to collect mostly relevant and sufficient data ● recorded data in reasonably appropriate graphical displays with or without the use of digital technologies ● analysed data, identified some trends and relationships, suggested adequate explanations for the results, made mostly valid conclusions ● reasonably detailed the progress of the investigation in a logbook* ● acknowledged all assistance given in conducting and communicating the investigation* ● completed a reasonably structured and coherent report, with language used that reflects the students own understanding and is appropriate for the intended audience* |
| 2 | <p>The student has provided evidence that they:</p> <ul style="list-style-type: none"> ● completed a science investigation with minimal understanding of fair testing ● had shown no originality and/or creativity in the investigative methods ● had limited understanding of the relevant science concepts ● collected little or no relevant background information and made no, or an inappropriate prediction ● made little attempt to consider suitability of materials and equipment and collected some data ● recorded some data in graphical displays with or without the use of digital technologies ● conducted a limited analysis of data with no plausible explanations for the results and made no valid conclusions ● did not detail the progress of the investigation in a logbook. ● provided no acknowledgment of assistance given in conducting and communicating the investigation ● completed a report with limited structure, with language that reflects the students own understanding and is appropriate for the intended audience |
| 1 | <p>The student has demonstrated that they:</p> <ul style="list-style-type: none"> ● completed a science investigation with no understanding of fair testing ● had shown no originality and/or creativity in the investigative methods ● had no understanding of the relevant science concepts ● collected little or no relevant background research and made no, or an inappropriate, prediction ● made little attempt to select suitable materials and equipment and collected no relevant data ● Recorded no data in graphical displays with or without the use of digital technologies ● Provided no analysis of data or explanation of results with no valid conclusion ● did not detail the progress of the investigation in a logbook ● provided no acknowledgment of assistance given in conducting and communicating the investigation ● did not write a report with the required structure for a scientific investigation |