|  |  |
| --- | --- |
| **Description** | **Marks** |
| **Questioning and predicting** | |
| Correctly identifies the variable to be changed (independent variable). | 1 |
| Correctly identifies the variable to be measured (dependent variable). | 1 |
| Correctly identifies at least two controlled variables. | 1-2 |
| **Subtotal** | **4** |
|  |  |
| Writes a question that can be investigated and is reasonable. | 1 |
|  |  |
| Writes a prediction that describes a relationship between the dependent variable and the independent variable; and matches the question posed above. | 1-2 |
| Provides a reasonable explanation for choosing this prediction. | 1 |
| **Subtotal** | **3** |
|  |  |
| Identifies safety risks associated with the investigation. | 1-2 |
| Suggests ways to minimise the risks. | 1-2 |
| **Subtotal** | **4** |
|  |  |
| Draws a table that includes:   * descriptive title containing dependent and independent variables. * information relevant to the investigation. * appropriate column headings with units of measurement. | 1-3 |
| **Subtotal** | **3** |
| **Processing data** |  |
| Graphs data collected from the investigation:   * provides appropriate graph title. * labels axes correctly. * includes appropriate units of measurements. * plots data correctly. * draws the appropriate type of graph. | 1-5 |
| **Subtotal** | **5** |
| **Analysing data** | |
| Describes relationships or trends in the results. | 1-2 |
| Refers to specific data when describing relationships or trends. | 1 |
| Compares the results to their prediction. | 1 |
| **Subtotal** | **4** |
| **Evaluating** | |
| Identifies difficulties experienced when conducting the investigation.  May include reference to, but not limited to: quality of the data, correct use of equipment, choice of equipment. | 1-2 |
| Makes suggestions to overcome the difficulties described, including ways to improve the quality of the data. | 1-2 |
| **Subtotal** | **4** |
| **Total** | **27** |