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| Know1Individual skills |  | Integration | Apply 2Understand principles |
| Skills | Strategy |  |
| K3K4K2K1 | Choose a suitable range for the independent and dependent variableGather sufficient data for the investigation and repeat if appropriatePrepare a table with space to record all measurementsApply sampling techniques if appropriate | K11 | Choose range, interval, readings | A2A1 | Explain why having a large range or many readings leads to accurate dataDescribe the factors that influence the choice of range and interval for the variables |
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| A3 |  |
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| K6K5 | Check that the measuring instrument can measure the complete range of the independent variableCheck you can detect differences in the dependent variable | K12 | Test suitability of measuring instruments |  |  |
| A4 |  |
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| K9K10K8K7 | Use the measuring instrument correctlyCarry out the method carefully and consistentlySee if repeated measurements are closeRemove outliers and calculate mean of repeats | K13 | Gather data, minimising errors |  |  |
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| Key words |  |  |  |
| K15K14 | **Range** The maximum and minimum values of a variable**Interval** The gap between the values of the independent variable | K17K16 | **Control group** Those that are not exposed to the factor being tested**Repeatable** When repeat readings are close together |