

2019 Summer Highlights



Answer: 65000

Answer: 6.5×10^4

$$\% \text{ uncertainty} = \frac{2 \times 0.10}{20.25} \times 100 = 0.0049\%$$

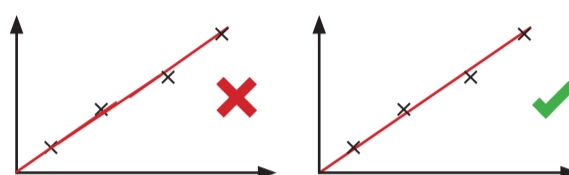


Systematic errors are consistent errors in the equipment. Random errors are present when any measurement is made.

You need to be able to convert results between decimal form and standard form (e.g. $a \times 10^n$).

Show clear working for calculations. Error carried forward may mean a response still gains marks if a mistake is made.

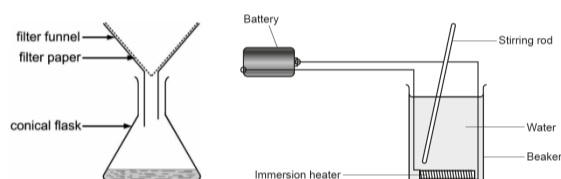
The value of A is greater than that of B



When a question asks you to make a comparison, make sure you clearly describe differences and/or similarities.

Make sure lines of best fit are smooth and one single line.

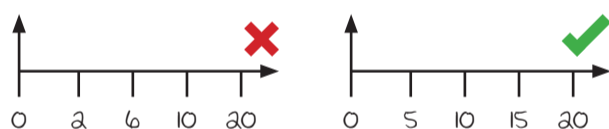
Use capitals where appropriate when writing chemical symbols. The first letter of an element symbol is always a capital.



Apply what you know to new situations. Unfamiliar experiments will still use apparatus & techniques you know.

Remember that precision is the closeness of agreement between different results. It is not the same as accuracy.

Accuracy is a measure of how close a result is to the true value.



346
 0.346
 0.0346

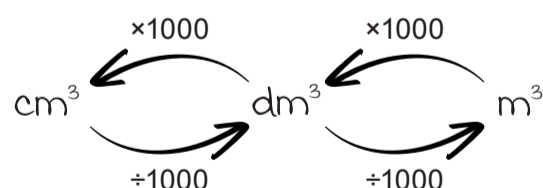
3 significant figures

a. ~~~~~
 b. ~~~~~
 c. ~~~~~

Use linear scales on graphs.

Make sure you give answers to the number of significant figures asked for after performing calculations

The different parts of extended questions are linked. Information from part (a)ii may help with part (b)i.



State two hazards and suggest precautions for each one.

Describe and compare the bonding of the materials and suggest which of them would be best to use, giving reasons for your answer.

In calculations always check the units and make conversions if needed.

For longer questions, answer each part of the question roughly equally. Check you have answered the whole question.

Underlining or circling key information in questions will help you remember, as will jotting down ideas and equations.

The examiners' reports for the 2019 Applied Science papers can be found on Interchange.

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