

Physics paper 3

General principles when taking measurements

- Write down the number of DP that is given by your measuring devices. For example, do not write "11 cm", write "11.0" cm when using a ruler.
- Write all subsequent measurements with the same number of DP
- The exception to this is when using a stopwatch – 1 dp at best due to human reaction time
- If you are using a digital meter with a varying value – be sensible.
 - If the meter changes between two values (e.g. 5.39 V and 5.40 V), use the higher.
 - If it changes between three values, choose the middle.
 - Remember, though, that the examiners will not be able to check!

Q1. This is an experiment that should run fairly simply. Begin by setting up the apparatus and taking and recording a measurement.

- a) Taking a measurement of a dependent variable – you will usually be told that it should be set to roughly a specific value.
Marks will not be awarded if your measurement is not very close to this!!
If it tells you "roughly 25.0 cm" – then I guess 25.2 cm is ok. But **just do 25.0 cm** or as close as you can.
- b) Taking a measurement of an independent variable
- Use an appropriate number of SF/DP – this step will often be a distance, so use the DP available on your measuring device. For time, 1 DP is appropriate
 - **Evidence** of repeats – take repeat values and find an average. Show your calculations as evidence or not credit will be given
 - If you are finding a time period of an oscillation, you can take multiple (n) oscillations, and divide your total time by n .
- c) Table: general marks criteria
- 4 marks for taking six readings with a correct trend
 - 1 mark for using a wide enough range (often this range will be given in the question). Usually at least 60% of the total range that you could measure
 - 1 mark for correct column headings **with correct units for all!**
 - 1 mark for being consistent with your DP of your independent variable – for each column use the same number of DP

Physics Paper 3

Ensheng Dong



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