PRACTICAL TASK GUIDANCE

Stage 1- Planning (4 marks)

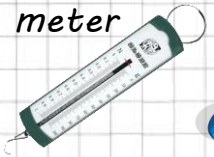
1) Complete some re/search using the in/ter/net or text/books. Write down the web/site URL for re/fer/ence (http://www ...)
2) If you use a book, write down the book title, au/thor, pub/li/ca/tion year, pub/li/sher:

'Science Entry Level Certificate OCR',
C Sherry; L Smiles; B Cowie; 2011; Collins

3) List all e/quip/ment & chem/i/cals


balance

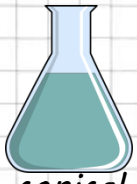

slotted weights

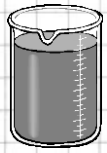

Newton meter

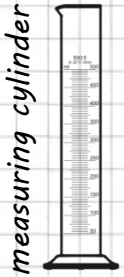

spatula

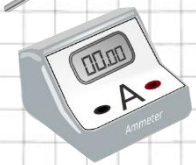

thermometer


clamp and stand


conical flask




measuring cylinder




pipette

4) Write a risk assessment.

What is the danger?	What harm could be done?	How will you prevent harm?

5) Write a step by step method:
Set up the equipment as shown in the Diagram.
Use a ... to measure out ...
Transfer the chemical into a ...
Next...
To keep the test fair I will keep the following things the same:
Repeat...

6) Draw a results table. Keep this format!

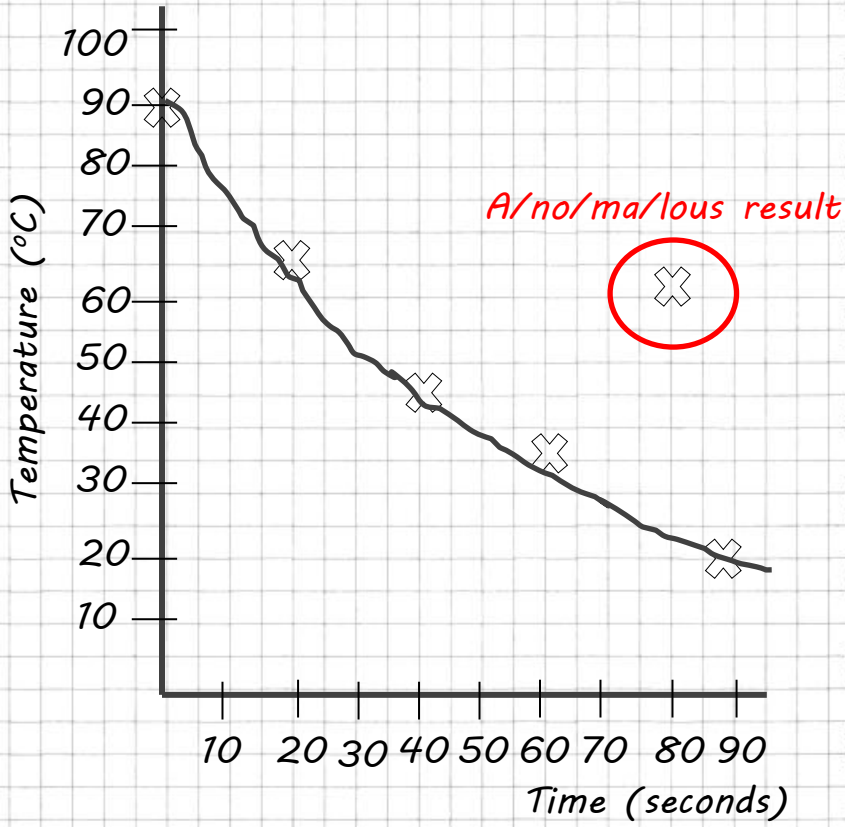
(Independent = Investigate; Dependent = Data)

In/de/pen/dent va/ri/able & unit			De/pen/dent va/ri/able & unit			Average of DV		
/	/	/	Test 1	Test 2	Test 3	/	/	/

PRACTICAL TASK GUIDANCE

Stage 2- Processing (4 marks)

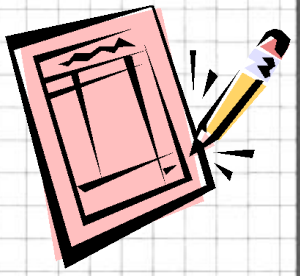
1) Draw a graph (work out averages first):
Ensure you have - good scale for the axes
- labelled the axes
- added units
- plotted all points correctly
- drawn a LOBF



Stages 3 & 4- Patterns and Interpreting (8 marks)

1) Describe the pattern, quote some numbers from the graph and explain the science behind the results:

"As the time increases, the tem/pe/ra/ture decreases. For example, when the time was 0sec, the tem/pe/ra/ture was 90°C. When the time was 90sec, the tem/pe/ra/ture was 20°C. Heat always moves from a hot object to the colder one until the two tem/pe/ra/tures are equal."



Stage 5- Reviewing (4 marks)
(how good are the results?)

1) Look at the graph. If you have a clear line of best fit, the results are good enough to come to a con/clu/sion
(even if you have 1 or 2 a/no/ma/lies)

2) Think back to your ex/pe/ri/ment. How much did you spill? Where else might you have made mistakes? How easy was the method? How much have these points affected the quality of your results?