Candidate evidence

3 Data collection and handling

3(a) A brief description of the approach used to collect experimental data.

Example 1

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Description of experiment—
A group of 11 people are enown 20 objects for 5 seconds each After they we been enown they must write down all of the objects they remember. This will then be repeated with alignment objects.

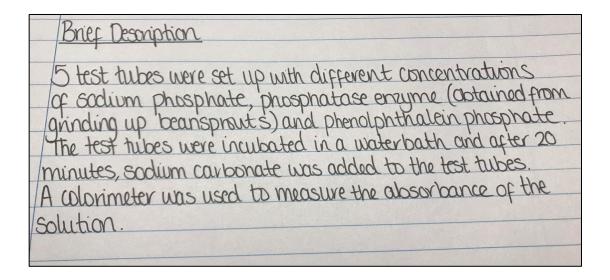
After trial I and 2 are finished the pupils will then do the same for trial 3 and trial H but will have a distroction of for 30 seconds of counting back from 100 in 5's. They will then write down the objects they can remember.
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I read out a list of random words to a class of SZ students. Straight after they were told to write down all the words they remembered. Then I read the list to a different class but put the words together in categories - colours, food, animals, furniture. Again they were told to write down all the words they remembered a soon as I stopped.	
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b.	Method ~ We grinded up mungbeans and
3000	extracted the phospatase enzyme. Then we set up four testubes, each with a different
	Set up four testubes, each with a different
	Concentration of Sodium phosphate in C. Hic
The second	testtubes contained a buffer also. We then
Car Sur	added the phosphatase enzyme and put
والافو	the four test tubes into a waterboth for
mont	20 minutes at 30°C. Once the test tubes
de duit	Came out of the waterbath, Sodium Carbonate
.28	Solution was added to them all. Then
activity.	we measured the intensity of the pink Colour
Vallet 1	using water as a blank using a 550nm
20	using water as a blank using a 550nm colourimeter. We completed this experiment twice.
lat and	the martin taken pice A competitive let

°1.50	ak filter	paper disc	ix on cata	luge over 1	lunas.
2. Ad	d measure	d hydroge	is on cata n peroxiole	to McCo	witney.
4. Pla	le Soake	el disc	on end at botton	n of the	e bottle
0	1	0011	e Maches		
200	ution				
o. nej	iear win	ayfinen	hydrogen	pymou	CONOUNTYWIO

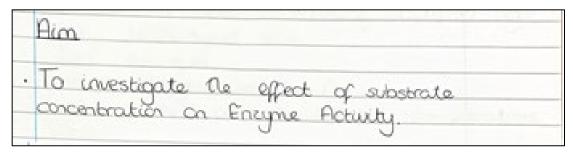
Cut filter paper into small discs and then soak on a catalase source (e.g. potato) for a certain amount of time. Measure out a quantity of hydrogen peroxide for each
McCartney bottle
Use a grass rod to place a soaked filter paper disc into a McCartney bottle, placing it on the bottom containing
hydrogen percxide. Then Start a timer.
• Then Start a timer.
Stop the timer when the disc reaches the top of the hydrage peroxide surface.
Then repeat with different concentrations

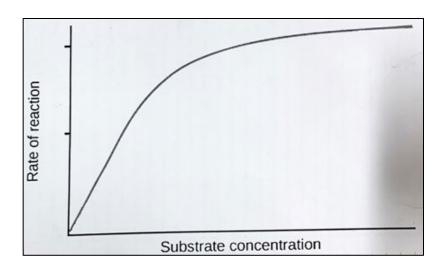


- 3(b) Sufficient raw data from the candidate's experiment.
- 3(c) Data, including mean/average values, presented in a correctly produced table(s).

	Volume	of foam	produced (mi) Average
Type of unhibitor	1	2	Average
O .			
Copper nutrate	28	31	29.5
Copper sulfate	37	38	37.5
Lead nitrate	12	9	10.5

3(d) Data relevant to the aim from an internet/literature source.





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Data fron	n 501	ACC.			ZRIL	
Data fron	n 501	Exect	ime taken ((s)		in sall-
Copper sulfate		т	群為難	200		म आ -
Copper sulfate concentration	Run 1	Exect	ime taken (/s) Run 4	Mean of	Reference S
Copper sulfate concentration (/mol dm ⁻³)	Run 1	Ti Run 2	Run 3	Run 4	Mean of Runs 1-4	Reference S
Copper sulfate concentration (/mol dm³)	Run 1	Ti Run 2	Run 3	Run 4	Mean of Runs 1-4	Reference &
Copper sulfate concentration (/mol dm ⁻³) 0.00 0.001	Run 1 16 16	Run 2	Run 3 16 15	Run 4 16 15	Mean of Runs 1-4 16 16	Reference S
Copper sulfate concentration (/mol dm³)	Run 1	Ti Run 2	Run 3	Run 4	Mean of Runs 1-4	Reference &
Copper sulfate concentration (/mol dm ⁻³) 0.00 0.001	Run 1 16 16	Run 2	Run 3 16 15	Run 4 16 15	Mean of Runs 1-4 16 16	Reference &
Copper sulfate concentration (/mol dm ⁻³) 0.00 0.001 0.005	Run 1 16 16 58	16 16 47	Run 3 16 15 58	16 15 60	Mean of Runs 1-4 16 16 56	Reference &