Y7SID_chauhan_aarav-4508

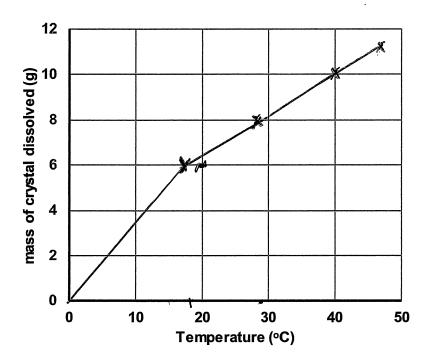
27 marks Attempt Questions 16-19. Allow about 35 minutes for this section				
Question 16 (15 marks)		Marks		
The paragraph below is a student's write-up	of an experiment.			
amount of solid left behind and found that 6. 3.Then I did it again but this time I heated th	d all the water from the solution. I weighed the .0 g had been dissolved. The water using a Bunsen burner, gauze mat and form a retort stand using water at 29ºC. I f	nd		
a) Write an aim appropriate for the exp	periment.	1		
	hacina			
hotter makes more 5110	nolue than a less hotten			
hother makes more diss	nolue than a less hotten	tempe2		
b) Complete the table for the student's	results.	tempe2		
Complete the table for the student's	results. Amaint 218501ved (a 6.0 8.0	tempe2		
b) Complete the table for the student's Temperature (2) 180 29	results. Amount 21 550 (a 6.0 9.0	tempe2		
b) Complete the table for the student's	results. Amaint 218501ved (a 6.0 8.0	tempe2		
b) Complete the table for the student's Temperature (C) 18 29	results. Amaint dissolved (a 6.0 8.0 10.0	tempe2		

dis5010e2.

(d) Identify a variable that needs to be controlled during the experiment to make it a fair or valid test.	1
A voviable that must be continued is the mater	
experiment	do +615
(e) Draw a labelled scientific diagram showing the equipment set up required to carry out sto 3 as described above.	ep 3
Piagram of cheo 3	
Perout Stars	
Bogs Head Inhermomerer	
The form Test tube with 100mls of water	
Burson Burson Burson Burson Burson Burner	-
(f) Identify two safety issues the student will have to be concerned with through this experiment.	2
and stiving	È
convect way, string the solution.	

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(h)	Write a conclusion for the experiment.							1
•••••	<u>I</u> cox	ი <i>. c ა ი</i>	(> e	thar		ho++ev	+he	temperature
	wa 5	Lhe	G	ore a	eel6	ued.		

Question 17 (4 marks)

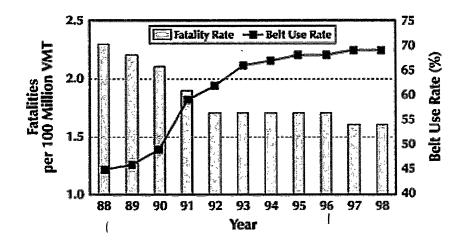
The following scientists are working in different branches or disciplines of science. Identify which branch each is working in:

4

Activity	Branch of Science
Paris is studying the crystals embedded in a rock.	Geoloss
Beau is developing a new type of plastic	
Shaun is investigating the eating habits of insects	6/0/02
Angus is monitoring the movement of an asteroid	as +v= 1054

Question 18. (4 marks).

The graph shows information about road fatalities and the use of seat belts in cars.

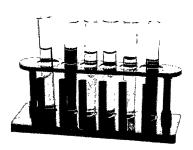


(a) According to this data what is the trend shown in the number of fatalities between 1988 and 1996? Provide data to support your answer.

fvom 1996 can be said to go down with less forgities each gear, musch 1992 4he number of fatalities (b) Analyse the data presented and provide reasons for the conclusion you made. made what are muitten above due to the graph shows which represents a counward trend of car foralities until nitting the 1992 in which the number of Atalities stared the and samples the lift expay 1996 tour nex +

Question 19. (4 marks).

The drawing made by a scientist was twice as big as the real size of the object. Determine the actual length of the whole piece of equipment. *Show your working.* **2**



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560	a) <u>4</u>	be	a 100	<u> 2</u>	25 4	ત્ર .	•••••••	
				ipment diag		ve. Identify two	things th	nat the
The	scienti:	5+ <i>d</i> ;	d not	dian	. the	c/ a gver	····· <u>·</u> ₂ 2	2D
<u>but</u>	<u>ο</u> ί	30 i	በያዘድብድ	and a	150 5	lid not 1	<i>૧</i>	.కి. ఆ ల (
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END OF EXAM