Class: G	o	S	F	R	D	Student Name: Jamie Townraw
Part A	A /16					
Part E	3 / 27		*			
ТОТА	L			/43		

ANSWER SHEET for MULTIPLE CHOICE -Clearly mark 1 answer for each question.

QUESTION	A	В	c /	D
1		•	\sqrt{f}	
2		/	V	
3		$\sqrt{}$		1
4		/		
5	,			/
6	/			√
7	$\sqrt{}$			/
8			1	
9			$\sqrt{}$	/
10				
11				\
12			/	
13			\ \	
14		/		
15				/
16	•			

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.						
1. I put 100 mL of water in a test tube and measured its temperature. It was ome of the crystals in it and stirred the mixture to dissolve the crystals. I some remained on the bottom of the tube no matter how much longer I so 2. I filtered the mixture and then evaporated all the water from the solution amount of solid left behind and found that 6.0 g had been dissolved. In 3. Then I did it again but this time I heated the water using a Bunsen burned tripod while the thermometer was suspended form a retort stand using we that 8.0 g dissolved. 4. I repeated it at 40°C and at 47°C and got 10.0 g and 11.2 g as my result	I kept stirring until tirred. ion. I weighed the er, gauze mat and vater at 29°C. I found					
(a) Write an aim appropriate for the experiment.	1					
How much water dissolves after stirring, when the to	emperator of Re					

Part II

(b)

Amount Dissourd Alex stirring
6 Oq
8.00
10.0a
11 20

valor is diffirent.

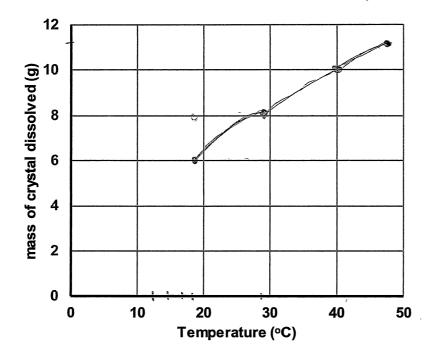
Complete the table for the student's results.

(c) Identify the in	depen	dent and de	epen	dent va	riable	for th	is experime	nt.		2	
Independent	: \$ [arting Tem	portu	n of	the	h/l	Aco.				
dependent:		V						σf	wader.	Also Me	hime
Shirred	••••••	***************************************	•••••••			••••	***************************************	•••••	••••••		

2

/alid t	entify a variable that needs to be controlled during the experiment to make it a fair or test. For the test to be valid the water and salt have
h	be controlled.
	Draw a labelled scientific diagram showing the equipment set up required to carry out step lescribed above.
	Thermometer 250ml Beaker 100ml water
	Retort Stand
	Burner Tripod
	Gas hose
	entify two safety issues the student will have to be concerned with through this
Th	e students will have to make sure the burson,
	set up corocally and that no mater will erupt spin
	out of the beaker.

.



(h)	Write a o	conclusion for	the ex	perime	ent.					1
lAs	the	conclosion	of	mu	etecriment	n_{z}	hofter	the	under	
				V	g.					
	is the	More	soult	wou	s dissolved.	<u> </u>				

Question 17 (4 marks)

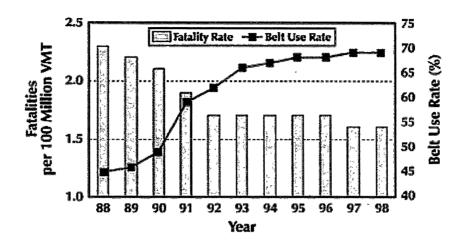
The following scientists are working in different branches or disciplines of science. Identify which branch each is working in:

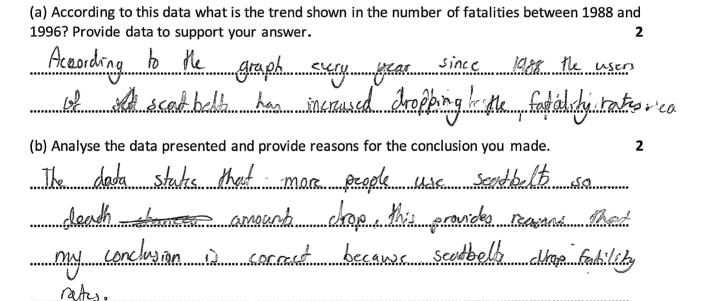
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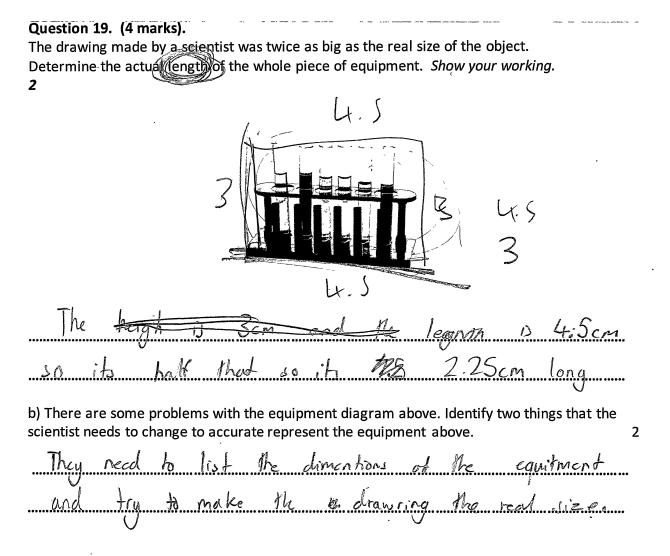
Activity	Branch of Science
Paris is studying the crystals embedded in a rock.	
Beau is developing a new type of plastic	
Shaun is investigating the eating habits of insects	Zoology
Angus is monitoring the movement of an asteroid	Astro physics

Question 18. (4 marks).

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







END OF EXAM