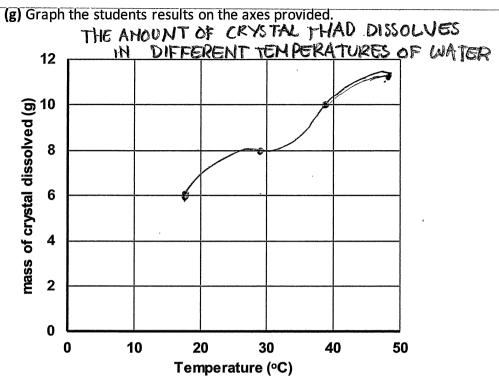
Class: G	0	S	F	R	Ò	1	t Name: Alexander (aw		
Part A	A /16							Λ	
Part 6	3 / 27							$\mathcal{C}$	
ТОТА				/43					
		for M	IULTIPLE	CHOIC	E -Clear	ly mark 1	answer for each	question	
QUEST	ION	A			В	- 12,01	С	D	
1							- /		
2								V	
3									
4							•	<b>③</b>	W
5				Ø		✓			
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15					i	,		į.	
16								V	

Dependant: the temperature of the water

Independent: the crystals in the water

bunsen burner

	(d) Identify a variable that needs to be controlled during the experiment to make it a fair or valid test.  1  1  1  1  1  1  1  1  1  1  1  1  1	•
	(e) Draw a labelled scientific diagram showing the equipment set up required to carry out step 3 as described above.	) }
Refort sta	nd — test tobe r	
	(f) Identify two safety issues the student will have to be concerned with through this	2
	They would have to turn the bunsen burner off when the over not using it.	
	They would have to wear safety glasses when using bunsen burner	
	They would also have to be carefull washing the tripod as it gets	
	really hot.	



(h)	Write a conclusion	on for the experiment.		1
•••••	the higher the	temperative was, the more	orystal that gets dissolved in	.Hne
	test tube			

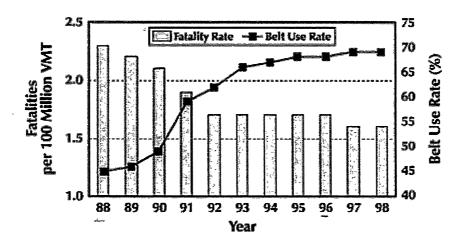
## Question 17 (4 marks)

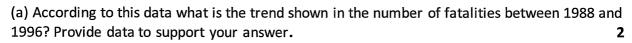
The following scientists are working in different branches or disciplines of science. Identify which branch each is working in:

Activity	Branch of Science
Paris is studying the crystals embedded in a rock.	Geology
Beau is developing a new type of plastic	<del>-cinemat</del> ry Chemistry
Shaun is investigating the eating habits of insects	entendogy Entemology
Angus is monitoring the movement of an asteroid	astronomy.

## Question 18. (4 marks).

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





from # 1988-1996 the Galattes have massively reduced as the use of seatbelts go up almost by 500%.

(b) Analyse the data presented and provide reasons for the conclusion you made.

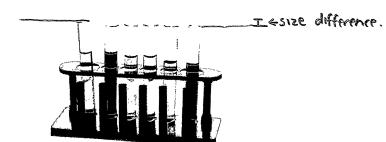
on you made. 2

I gave a conclusion like this because from 1988 to 1996, the crashes veduced by 600,000 (approx) and the use of seatbelts during

the same period of time ovent up by 25%.

## 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** 



total length of rack= 4.3 actual size= 4.3 = 2=2.15cm = rack	
test tube = 0,4 cm. actual size = 0,4x 0,4 = 2 = 0,2 cm = tu	lbe.
b) There are some problems with the equipment diagram above. Identify two things that the scientist needs to change to accurate represent the equipment above.	2
- same size test tubes -20 drawring	
-no colours :	

**END OF EXAM**