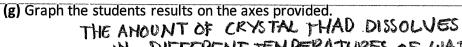
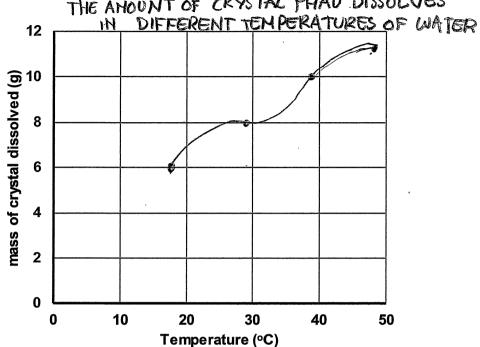
Class: G O	S F	R	(D)	Student I	Name: Alexande/ (av	
Part A /16	0					\bigcap
Part B / 27	0					
TOTAL	0	/43				
ANSWER SHEET F	or MULTIPL	E CHOIC	E -Clearl B	y mark 1 a	nswer for eacl	h question()
1					- /	
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14						1
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16						V

Part II		
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 a	n experiment.	
1. I put 100 mL of water in a test tube and meas some of the crystals in it and stirred the mixture some remained on the bottom of the tube no meas. I filtered the mixture and then evaporated all amount of solid left behind and found that 6.0 g 3. Then I did it again but this time I heated the water tripod while the thermometer was suspended for that 8.0 g dissolved. 4. I repeated it at 40°C and at 47°C and got 10.0	to dissolve the crystals. I kept stirring until atter how much longer I stirred. the water from the solution. I weighed the had been dissolved. ater using a Bunsen burner, gauze mat and rm a retort stand using water at 29°C. I found	
(a) Write an aim appropriate for the experir	ment. 1	0
,,	aperature of the water affects how much	J
(b) \ Complete the table for the student's resu	ults. 2	0
Temperature of water (°C)	Amount of crustal disolved (9)	Ū
18°C	6109	
290 C	8.09	
40° (10.09	
4700	11.29	
(c) Identify the independent and dependent vari	able for this experiment.	0
Dependant: the temperature o	1 the valor	
MEDENHALIT . TVE VENITALITAE A		
	r ine quier	

• •	aw a labelled scientific diagram showing the equipment set up required to carr	ry out step 3 0
	Clamb	
Boss h	ead thermometer. Thermometer.	jayze mat [-250m
	Thest tobe	
· · ·	Camorro Camorro	bunse bunse
fort stand —	1-105	t.fube rack bur
	coulds havid	·
(f) Iden experir	crysfals "ישלים) tify two safety issues the student will have to be concerned with through this nent.	2 0
The	y would have to turn the bonsen burner off when the ave not us	ingt
	ey would have to wear safety glasses when using bursen Burner	
	ey would also have to be carefull washing the tripod as it	







(h)	Write a conclusion for the experiment.			0
	the higher the H	emperature was, the more crystal that gets dissolved in the		
	test tube			
			•	

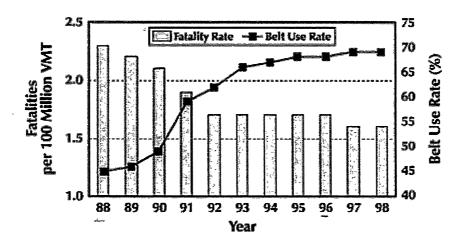
Question 17 (4 marks)

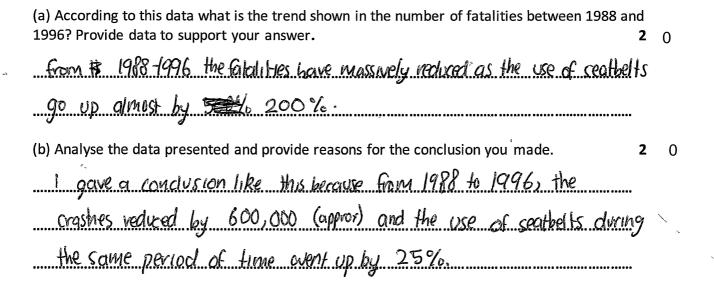
The following scientists are working in different branches or disciplines of science. Identify which branch each is working in:

Activity	Branch of Science
Paris is studying the crystals embedded in a rock.	Geology
Beau is developing a new type of plastic	-cinevastr y Chemistry
Shaun is investigating the eating habits of insects	entermology Entermology
Angus is monitoring the movement of an asteroid	astronomy.

Question 18. (4 marks).

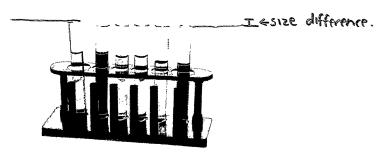
The graph shows information about road fatalities and the use of seat belts in cars.





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 = vack	C
fest fube = 0.4 cm. actual size = 0.4x 0.4 = 2 = 0.2cm = tube.	
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	0
-no colours :	

END OF EXAM