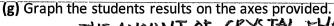
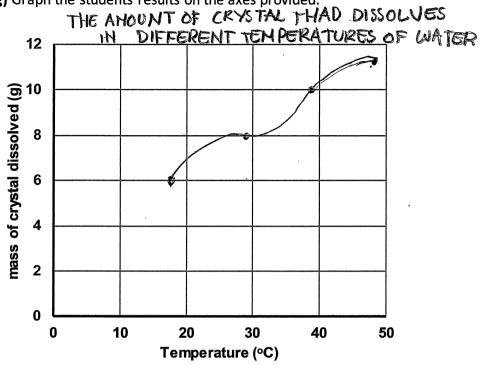
Class: G O	S	F	 R	Ò	Student	Name:			
G 0	<u> </u>	F	ĸ	_ W _		Alexanter (av			
Part A /16								Λ	
Part B / 27									_e ss.
TOTAL			/43						
ANSWER SHEE	T for	MULTIPLE	CHOICE	-Clearl	y mark 1	answer for ea	ch qu	estion	
QUESTION		Α		В		С		D	
1						- /			
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Part 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	an experiment.
1. I put 100 mL of water in a test tube and measures of the crystals in it and stirred the mixtures ome remained on the bottom of the tube no magnetic that a solid left behind and found that 6.0 gas. 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.	te to dissolve the crystals. I kept stirring until natter how much longer I stirred. If the water from the solution. I weighed the g had been dissolved. If water using a Bunsen burner, gauze mat and form a retort stand using water at 29°C. I found
(a) Write an aim appropriate for the experi	iment. 1
,	mperature of the water affects how much
of the crystals is discived	
(b) Complete the table for the student's res Temperature of water (°C) 18°C 29°C 40°C 47°C	Sults. Amount of crustal disolved (9) 6:09 8.09 10.09
(c) Identify the independent and dependent value of the femperature	of the water
Independent: the crystals in t	he water

val (e	identify a variable that needs to be controlled during the experiment to make it a fair or lid test. 1 The Ommount of crystals put in the liquid needs to be controlled 1 Draw a labelled scientific diagram showing the equipment set up required to carry out step as described above. 3
	Clamb
80	ss head thermometer. Gasze mat
Refort stand	Comorrod Ostrice Test tube rack
	coustals liquid
	Crystals (1901) Identify two safety issues the student will have to be concerned with through this periment.
	They would have to turn the bonsen burner off when the are not using it.
	They would have to usear safety glagses when using bunsen burner
	They would also have to be carefull washing the tripod as it gets
****	really hot.





(h)	Write a conclusion for the experiment.					
•••••	the higher the temperature was, the more crystal that get	s dissolved in the				
	test tube					

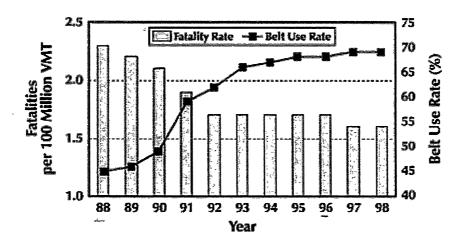
Question 17 (4 marks)

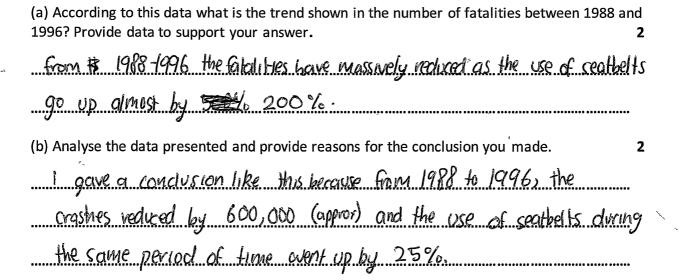
The following scientists are working in different branches or disciplines of science. Identify which branch each is working in:

Activity	Branch of Science
Paris is studying the crystals embedded in a rock.	Geology
Beau is developing a new type of plastic	: cinemistry . Chemistry
Shaun is investigating the eating habits of insects	enternology Enternology
Angus is monitoring the movement of an asteroid	astronomy.

Question 18. (4 marks).

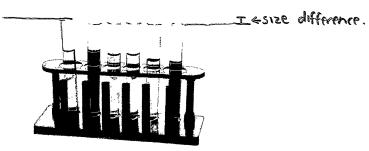
The graph shows information about road fatalities and the use of seat belts in cars.





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 = rack	
test tybe = 0,4 cm. actual Size = 0,4x 0,4 = 2 = 0,2cm = 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