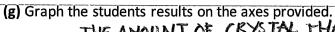
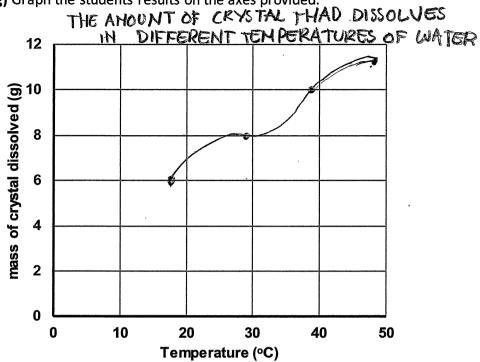
Class: G O	S F	R	D	Student Nan	ne: ande/ (aw	
Part A /16						Λ
Part B / 27						
TOTAL		/43				
ANSWER SHEET	for MULTI	PLE CHOIC	E -Clearl	y mark 1 ansv	wer for each qu	estion.
QUESTION	А		В	С		D
1				-	√	
2						V
3			V	·		
4					•	◎ ₩
5		ø		,		
6					√	
7	/					
8			, e			✓
9	✓					
10				V		
11		√				
12			V			
13		✓				
14						/
15			v		ŧ	
16						√

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 med some of the crystals in it and stirred the mixtur some remained on the bottom of the tube no n 2. I filtered the mixture and then evaporated at amount of solid left behind and found that 6.0 g 3. Then I did it again but this time I heated the tripod while the thermometer was suspended f that 8.0 g dissolved. 4. I repeated it at 40°C and at 47°C and got 10.	re to dissolve the crystals. I kept stirring until natter how much longer I stirred. Il the water from the solution. I weighed the g had been dissolved. 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 exper	iment. 1
The sum is to find out weather the te	imperature of the water affects how much
of the crystals is discoved	
(b) \ Complete the table for the student's res	sults. 2
Temperature of mater (°C)	Amount of crystal disolved (9)
1800	6,09
296 C	8.09
4000	10.09
47°C	11.29
(c) Identify the independent and dependent va Dependant: the femperature Independant: the crystals in the comparations.	of the water

	(e) Draw a labelled scientific diagram showing the equipment set up required to carry out step 3 as described above.
Refort star	
	(f) Identify two safety issues the student will have to be concerned with through this experiment.
	They would have to turn the bonson burnara when the are not using it.
	They would have to wear safety glasses when using bursen burner
	They would also have to be carefull washing the tripod as it gets
	really hot.





(h)	Write a conclusion for the experiment.	1
	the higher the temperature was, the more azystal that gets dissolved in the	
*******	test tube	

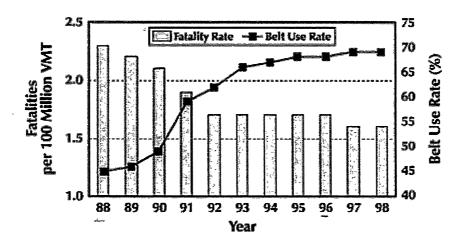
Question 17 (4 marks)

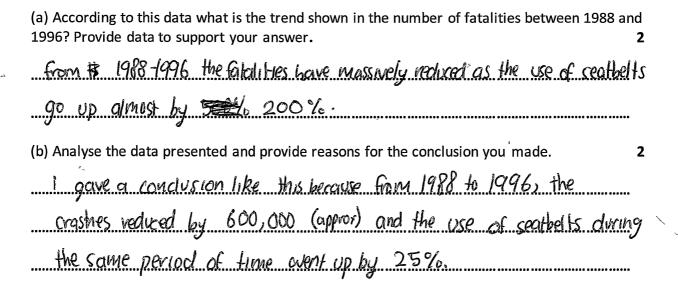
The following scientists are working in different branches or disciplines of science. Identify which branch each is working in:

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

Question 18. (4 marks).

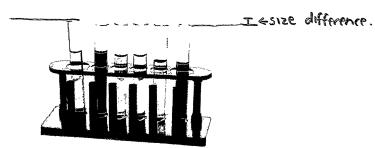
The graph shows information about road fatalities and the use of seat belts in cars.





			*
α	10	//	-l\
Question	19.	ı4 ma	rksi.

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