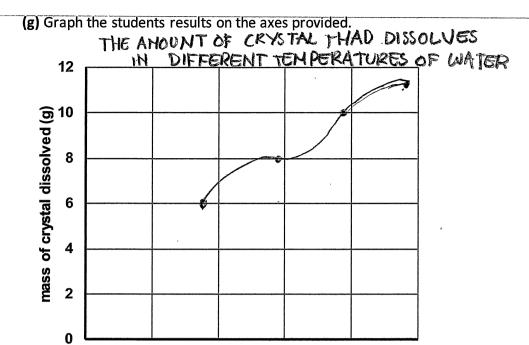
Class: G	0	S	F	R	, ((Student	Name: Alexante/ (aw		
Part A	A /16		-,,,,,,					٨	
Part E	3 / 27								
ТОТА	L			/43				\bigvee	~
A NISWE	D CUEET	for	MI II TID	I E CUOIC	`E Clos	urly mark 1 :	answer for each q	uestion	
QUEST		A		LE CHOIC	В	IIIY IIIAIK I A	C C	D	
1							- /		
2								· ·	
3						· ·			
4							•	(4)	V
5				6		✓			
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Page	2

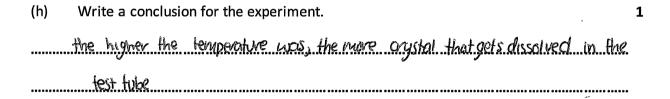
Part II	**				
27 marks Attempt Questions 16-19. Allow about 35 minutes for this section					
Question 16 (15 marks)	Marks				
The paragraph below is a student's write-up of	an experiment.				
some of the crystals in it and stirred the mixture some remained on the bottom of the tube no reasonable 2. I filtered the mixture and then evaporated a amount of solid left behind and found that 6.0 3. Then I did it again but this time I heated the	matter how much longer I stirred. Ill 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	riment. 1				
The sum is to find out weathe the te	emperature of the water affects how much				
of the crystals is discoved					
(b) \ Complete the table for the student's re	esults.				
Temperature of water (°C)	Amount of crystal disolved (9)				
1806	6:09				
296 (3,09				
4000	10.09				
LJ ^{oc}	11.29				
(c) Identify the independent and dependent value Dependent: the femperature	of the water				
Independent: the crystals in	he water				

	(e) Draw a labelled scientific diagram showing the equipment set up required to carry out ste 3 as described above.	ер 3
	Boss head Clamp thermometer Gazze	mat (a50ml
fort st	test topse constraint of use of the constraint o	tripod bunse
	crystals liquid	
	(f) Identify two safety issues the student will have to be concerned with through this experiment.	2
	They would have to turn the bunsen burner off when the ove not using it.	
	They would have to wear safety glasses when using bunsen Burner	



30

Temperature (°C)



40

50

Question 17 (4 marks)

0

10

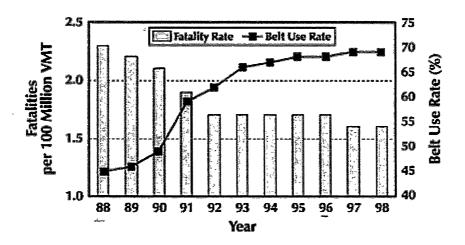
20

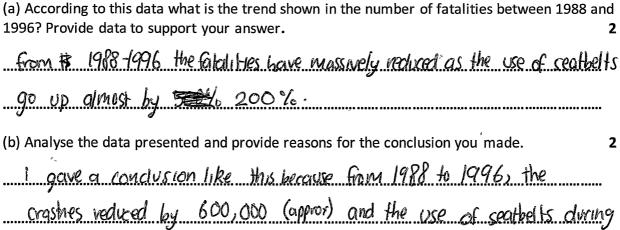
The following scientists are working in different branches or disciplines of science. Identify which branch each is working in:

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.

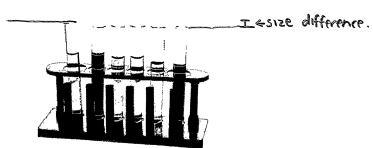




the same period of time overt up by 25%.

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 = 0,2cm = 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