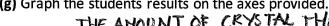
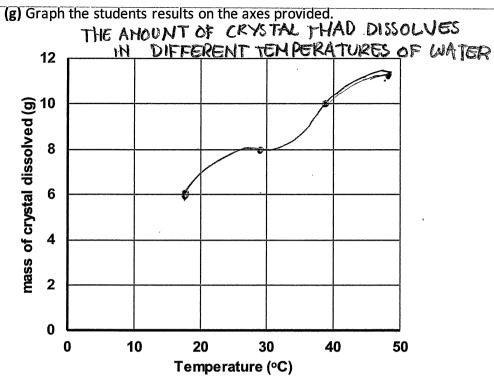
Class: G O	S	F R	<u></u> (b)	Student N	Viacanta Care		
Part A /16	0					Λ	
Part B / 27	0						
TOTAL	0	/43					
ANSWER SHEET		TIPLE CHOIC		y mark 1 a			
QUESTION	A		В		С	D	
1							
2						v	
3			V				
4					•	(3)	V
5		ø		√			
6					√		
7	/						
8			, ,			V	
9	V	•					
10				V			
11		✓					
12			V				
13		V					
14							/
15			v		į		
16						V	

Part II	•
27 marks Attempt Questions 16-19. Allow about 35 minutes for this section	
Question 16 (15 marks)	Marks 0
The paragraph below is a student's write-up	of an experiment.
some of the crystals in it and stirred the mix some remained on the bottom of the tube n 2. I filtered the mixture and then evaporated amount of solid left behind and found that 6 3. Then I did it again but this time I heated th	d all the water from the solution. I weighed the 5.0 g had been dissolved. ne water using a Bunsen burner, gauze mat and ed form a retort stand using water at 29ºC. I found
(a) Write an aim appropriate for the exp	periment. 1
The sum is to find out weathe the	temperature of the water affects how much
of the crystals is discoved	
(b) Complete the table for the student's Temperature of water (°C) 18°C 29°C 40°C 417°C	results. Amount of crystal disolved (9) 6:09 8.09 10.09 11.29
(a) Identify the independent and dependent	versional of our this expression out
(c) Identify the independent and dependent Dependan + : the femperature	•
Independent: the crystals in	
INNEPENDINI , 1110 CI AOIMIO IL	L Tric work of

A Constant	(d) Identify a variable that needs to be controlled during the experiment to make it a fair or valid test. The ammount of crystals put in the liquid needs to be controlled	1 0
	(e) Draw a labelled scientific diagram showing the equipment set up required to carry out s 3 as described above.	tep 3 0
	Boss head Clamp thermometer- Gayze	mat
	Boss head Thermometer Thermometer Thermometer Change not converted in use 100 muse 100 mu	J-12 beal
efort s	stand — Test fube	bunse rack bur
	crystals havid	·
	(f) Identify two safety issues the student will have to be concerned with through this experiment.	2 0
	They would have to turn the bonsen burner off when the are 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	-
		•







(h)) Write a conclusion for the experiment.							•	1	0	
•••••	:the	higher	the	temperative	was,	. the more	.ozystal	. Hhat gets dissolved	in the		
		st tube									

Question 17 (4 marks)

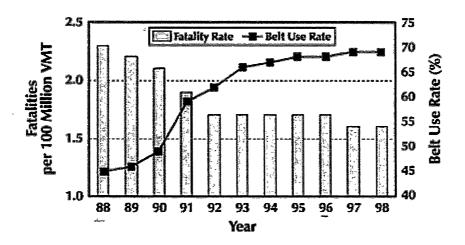
The following scientists are working in different branches or disciplines of science. Identify which branch each is working in:

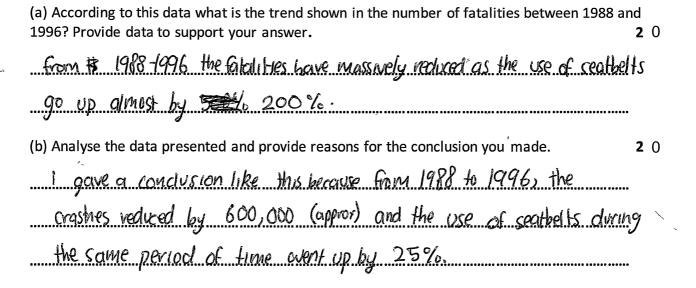
4 0

Activit <u>y</u>	Branch of Science
Paris is studying the crystals embedded in a rock.	Geology
Beau is developing a new type of plastic	zenevneh y Chemistry
Shaun is investigating the eating habits of insects	enternology Enternologi
Angus is monitoring the movement of an asteroid	astronomy.

Question 18. (4 marks).

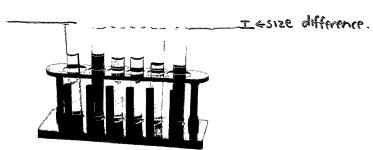
The graph shows information about road fatalities and the use of seat belts in cars.





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	Ο
test fube = 0,4cm. actual size = 0 ,4x 0,4 ÷2 = 0,2cm = tu	_
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.	20
- same size test tubes -20 drawring	
-no colours	

END OF EXAM