Class:	O	S	F	R	<b>(D)</b>	Student Name:
Part	A /16					
Part	В / 27			<u> </u>		
ТОТА	λL			/43		

ANSWER SHEET for MULTIPLE CHOICE -Clearly mark 1 answer for each question.

С QUESTION В D D 

B

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 o	of an experiment.					
some of the crystals in it and stirred the mixture some remained on the bottom of the tube no 2. I filtered the mixture and then evaporated amount of solid left behind and found that 6.0 3. Then I did it again but this time I heated the	all the water from the solution. I weighed the 0 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 expe	for the water is hotter.					
(b) Complete the table for the student's re						
Temperture 18°C 20°C	Crystale dissolved (weight)  6.092 8.09					

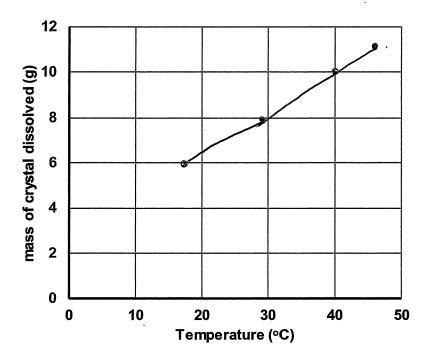
47°C

(c) Identify the independent and dependent variable for this experiment.

The independent varible is the water and heat while the dependent is the crystals

2

(d) Identify a variable that needs to be controlled during the experiment to make it a fair of valid test.	or <b>1</b>
The compant of crystals placed	······································
the water	•••••
(e) Draw a labelled scientific diagram showing the equipment set up required to carry ou	t stan
3 as described above.	3
	í
Description of the second of t	read
Thermometer	
Beuker	
Combwater with wire	
crystels wire gauze	
gauze	
Tripod /	
Burser O	
Busses	
	- Retori
(f) Identify two safety issues the student will have to be concerned with through this	Stand
experiment.	2
1 -Safety The Student will have	
to be concerned with wearings	
So fety glass, tieng hair back and	
ensuring that the gas value has no i	



(h)	Write	a conclusion fo	or the experir	nent.			1
T	he	hotter	the	water	ێ	the	mele
	(f)	stæli	will	be disa	solved		

## Question 17 (4 marks)

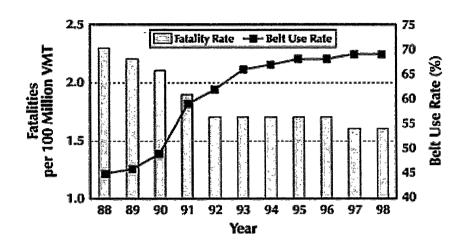
The following scientists are working in different branches or disciplines of science. Identify which branch each is working in:

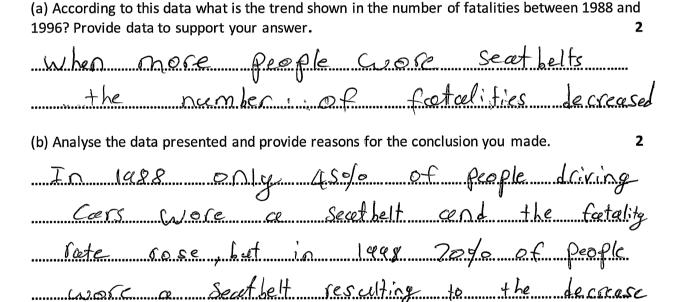
4

Branch of Science	Activity
rock. Geologie	Paris is studying the crystals embedded in a rock.
Plas Hology ??	Beau is developing a new type of plastic
	Shaun is investigating the eating habits of insects
Astronome	Angus is monitoring the movement of an asteroid
Ι Λ	Angus is monitoring the movement of an asteroid

## Question 18. (4 marks).

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





of fetalities

## Boen xg cm x 12cm

The drawin	9. (4 marks). g made by a scientist w the actual length of the	e whole piece of equi		-	2)ez	224
44n 31, 44	nonx 7mmx mm 242 1364m	Afmn	Lim 3 lang	4 9548	mm <sup>3</sup>	4774n
132		4774mm3	-3	224	7.74cm	The state of the s
3 o scientist ned	e some problems with eds to change to accur.  Need to	ate represent the equ	ipment above.		nat the 2	
	·			2880 6	cmz	
480		END OF EXAM	-			-
25050 250 247	254 mm.	·	42		477.4 cm	
	477.4cm		4,	7.74	cm2	