

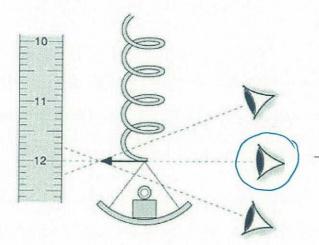
Name: Solutions

Mark:______/3029

	iitiiic iviet	nou & i	ractica	I Skills N	Aini Quiz	
Question 1					(8 marks)	
minute game, sh Max's Mum noti 45minute game	ne concluded that i ced that after a 30	it must be bed I minute game Iunch. Max's	cause Max use e Max ate 150 Mum conclud	ed more energy OkJ during lund	es than he was after a 30 in a 45 minute game. th, while after a sed 500KJ of energy	
A. What is the	correct name giver			ed about Max? and data		
B. Was any qua	ilitative data collec	cted? If so wh	nat was it? (2 r	marks)		
Yes	1) No	oficina	Max	was?	fired (1)	
C. Was any qua	intitative data colle					
Yes		Any	examp	le C		
were only ac	curate to 1g (whic a mistake. Explair	th means 1.6g n why you ma	would show a de this choice	as 2g etc). Whi e. (3 marks)	the scales she used ch of these is an error,	
	Mistake	- SC	calos	only	accuale	- }c
				1000	by being	

Question 2 (2 marks)

One of the eyes in the picture below is in the correct position to take an accurate measurement of the position of the end of the spring.



- A. Circle the eye in the picture that is in the correct position (1 mark)
- B. What sort of error could be caused by looking at the incorrect angle? (1 mark)

parallax

http://www.antonine-education.co.uk

Question 3

(6 marks)

Fill in the blanks on the table (6 marks): - 1 for each missing or incorrect.

Unit of measurement	Joule	Kilojoule	mega Joule
Symbol	J	KJ	MJ
Convert the	2500	2.5	0.0025
measurements	6500000	6500	6.5
	900000000	800000	800

Question 4

(7 marks)

Sarah looked up the nutritional information on a packet of Nutrigrain and discovered that 100g of Nutrigrain provides 1600kg of energy. She then designed the following table to help her work out how much energy she would get from different amounts of Nutrigrain.

A. Fill in the blanks on Sarah's table (2 marks):

Amount of Nutrigrain in g	Energy Received in kJ
100	1600
200	3900
250	4000
300	4800

Year 8 - Physical Science

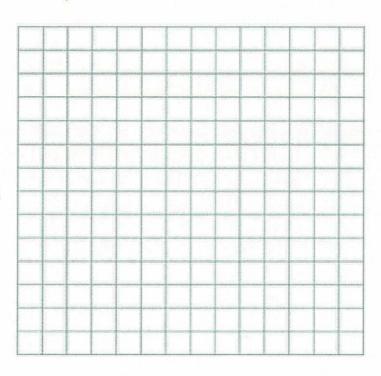
B. Draw a graph based on the information above (5 marks).

		525	
-1	FOR	each	mussing

- · Title
- · Ind Var on X
- · Labels
- . Units

· pencil axis draunin

rules reat



Question 5

-(7 marks)

Sharif wants to work out how energy efficient the new I pods are compared with the old version. Sharif collects 3 of each version so he has 6 in total. Sharif charges all devices for the same amount of time then counts how many times he can play his favourite song over and over before it stops.

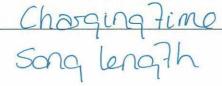
A. What is the independent variable (1 mark)

version of i pod

B. What is the dependent variable (1 mark)

how many times he can play the song

C. List one variable Sharif controlled (1 mark)



Year 8 - Physical Science

D. Write a	hypothesis for Sharif's expe	riment (2 marks).	
	correctly a	warded	
	includes	ind & dep. vi	eriables
		et hand or second hand data (1 n	

End of Test