SCI	ENCE - PHYSICS COMPONENT							
Nam	e							
	wer every question. should spend about 30 minutes on this section	n.						
_	stion 1 plete the following sentences by filling in the b	lank sp	oaces	with the	e correct	word(s).	
(a)	An is a device that measures	electri	c cur	rent.				
(b)	An electromagnetic is a magnet that can be t	urned	on an	nd off us	ing			_·
(c)	(c) Pressure is equal to divided by area.							
(d)	occurs when light changes	direct	ion a	s it enter	s water.			
(e)	(e) The pitch of a sound depends on the sound's							
(f)	The planet is between Satur	n and	Mars					
(g)	is the way in which he	at ener	gy ca	an travel	through	a vacu	ıum.	
								[7]
The g	stion 2 graph opposite shows how the distance of ld varies in time.	8	dista					
(a) Estimate the distance covered by the child after 3.5 seconds.		6	III II	netres				
(b) How long does it take the child to cover 3 metres?		4						



time in seconds

(c) What is the child's average speed?

\mathbf{a}	4 •	•
()	uestion	.5

Draw in the space below an electrical circuit containing four 2V light bulbs, a 4V battery and one switch. All of the light bulbs should operate at full brightness, two of them should be controlled by the switch.

(a) Des	cribe the energy changes that occur when a light bulb is powered by a battery.	
(b) Hov	w are 'energy efficient' light bulbs different energy wise from traditional filament light bulbs?	[3]
		[2]

[4]

Question 5

A seesaw of length 10m is pivoted about its centre. On one side a boy of weight 500N sits 4m from the pivot. A woman of weight 800N sits on the other side. How far must she sit from the pivot in order to balance the seesaw?

estion 6 Name the nearest planet to the Moon.	
D. 11. 1. 1. 1. 1. 1. 1. 1. 1. 1. 1. 1. 1	
Roughly, how long does it take the Moon to perform one orbit around the Earth?	

A	_
Lunction	''
Question	•
A	•

With the aid of a diagrai	n, describe an exp	eriment that compar	es how well differe	ent materials conduc	t heat
energy.					

TOTAL MARKS FOR THIS SECTION = 30

[4]

NOW CHECK THROUGH YOUR WORK CAREFULLY