ASSESSMENT TO KEEP LEARNERS ACTIVE S.1 PHYSICS

TIME: 2 hours

NAME:		STREAM	
IN	NSTRUCTIONS		
*		on A and any one in section B in the space provided. able scientific calculator.	
	SECTION A (at	ttempt all questions in the space provided)	
1.	During class activity, the stud	ents were tasked to find the length of their classroom. Osman	
	found out that the classroom	length is 50-foot spans meanwhile John obtained 12 metres.	
	, , ,	e are differences between the values obtained by the two	
		(01 mk)	
	b) Which of the two values of	obtained is an estimated value?(01 mk)	
	c) Which of the two values of	obtained is the actual value ?(01 mk)	
	d) Who obtained the actual value of the length of classroom?(01 mk)		
	e) How can we improve the reliability of an estimate?		
		(01 mk)	
2.	A senior one student poured I	Potassium permanganate crystals in a large beaker containing	
	water as shown below and left for some time to settle. He was surprised and puzzled by the		
	motion that he saw.		
		a) Help the student understand the above scenario by explaining to him what happens after some time. (05 mks)	
	Crystals of		
	potassium manganate (VII)		
	2000000		

3. The	diagram shows	the shape and dime	nsions of Peter's dining room.
		2m carpet co	nts to buy a carpet for his room. If one roll overs 15 m² . How many rolls of the carpet buy? (10 marks)
←	8m	4m	
	J.III		
		<u>*</u>	
		_	
4		_	
2.00			
3m			
••••••			
••••••			

4.	One given day students from primary school came to your school to tour the school laboratory but in absence of your class physics teacher you have been requested to guide them know the name and use of each of the following measuring instruments. (10 marks)
5 4 4 3 2 1	THE
($\begin{pmatrix} \mathbf{A} \end{pmatrix} \qquad \begin{pmatrix} \mathbf{B} \end{pmatrix} \qquad \begin{pmatrix} \mathbf{C} \end{pmatrix} \qquad \begin{pmatrix} \mathbf{D} \end{pmatrix}$
\	
}	
5.	A golden-coloured cube that measures 2cm by 2cm by 2cm and weighs 40 g is handed to you. The person wants you to buy it for \$1,000,000, saying that is a golden treasure. Is it gold? Should you buy it? (Given that the density of pure gold is 19.3 g/cm³) (5 marks)

The figure below shows one of the the questions that follow.	te factors affecting diffusion. Study it carefully and answer (05 marks)
the questions that follow.	(03 marks)
Add more copper sulfate	a) Name the factor affecting the rate of diffusion shown in the figure
	1) 7 1 1 1 2 00 4 1 4 6 1 100 1
	b) Explain how it affects the rate of diffusion us
	particle theory of matter
	J
pper Concentrated copper Saturated cop olution sulfate solution sulfate solution	
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8.	One rainy day one of your community members was struck by lightning and his body was
	having third degree skin burns and deep wounds. Most community members claimed it was
	witchcraft, maybe they are right or there maybe another better explanation to this scenario
	using knowledge of states of matter.
	Explain to the community members what state of matter lightening is giving three more
	examples of other substances that fall in the same state of matter as lightening (05 marks

SECTION B (attempt any one question in this section)

Question one

You have been hired by a discovery and jewel shop that deals with buying different chemicals, jewels, minerals, and other rare earth metals. You have been provided with a table containing density of different substances in their pure form. You are required to help the company identify the pure substances to be purchased.

Substance	Density (g/cm ³)
Ice	0.90
Olive oil	0.92
Water	1.0
Aluminum	2.7
Copper	8.9
Silver	10.5
Lead	11.3
Gold	19.3

The second table below has all the substances that have been brought to the jewel shop to be purchased.

Substance	Mass (g)	Volume (cm ³)
A shiny ring	21	2

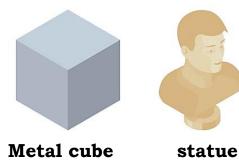
A chunk of metal	50	4.42
A white solid	63.72	23.6
A brownish metal	52.0	2.69

TASK (show all your working clearly)

As the newly hired shop attendant help the company identify each of the above substances so that you can pay the customers the rightful amount of money. (You can make use the first table to help you identify the substances in the second table) (10 marks)

Question two (10 marks)

A student wants to calculate the density of the two objects shown below: He however has some challenges in doing so help him write him all the procedures to be followed for accurate results. **SUPPORT MATERIAL**



The end



WORKBOOK
AND
ACTIVITIES OF INTEGRATION

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