TARGETER WINGS JUNIOR SCHOOL ASSESSMENT



GRADE 8 - 2024



TIME:1hour 20mins

INTEGRATED SCIENCE

Name		ń.
4 To 2		
School		
Adm No: _	Date	

Instructions:

- (a) Write your name, school, admission number and date in the spaces provided above.
- (b) Answer all questions in this question paper.

FOR EXAMINER'S USE ONLY						
Questions	Maximum score	Student's score	Performance scale			
1	2	-				
2	3					
3	3		*			
4	6					
5	3					
6	4	,				
7	4					
8	3					
9	5		4 5			
10	3		2			
11	2					
12	3	1				
13	3					
14	3	4.1				
15	3					
Total	50					

INTEGRATED SCIENCE GRADE. 8

1.	During an experiment, Grade 8 learners placed some drops of red ink at the bottom of a beaker of cold water as shown below. They left the beaker for some time. They observed that the red colour of the ink had spread throughout the water. (2 marks)					
	TO THE AMEN OF THE PARTY OF THE					
473	The red ink spread as a result of					
2.	Below are some activities that happen in real life and require basic skills in Science. Identif	ỳ				
:	the skill used in each of the activities.	3 marks)				
	i. Meteorologists studying weather patterns to forecast weather then advise farmers w	hen to				
	ii. A contractor took measurements of a site before digging trenches for the construction	n of a				
	classroom	in Or a				
i	iii. An environmentalist separates organic waste from inorganic waste.					
1						
3.	Mutiso was deep frying mandazi when the cooking oil splashed and caught fire. He rushed water but his mother stopped him and warned him never to use water to put out such fire. a) Give a reason why Mutiso's mother warned him never to use water to put out the fire.	e.				
		2 marks)				
		•••••				
	h) Name the type of autinomiches that Mating and I					
2	(l mark)				
4.	Grade 7 learners at Vision Academy were observing plant and animal cells under a light					
	microscope. a) They observed a plant cell as shown below. Name the parts labelled B, D and F.					
<u>)</u>	B	3 marks)				
	D					
	r					
	E B					
	F_C					
	G					
a)	Draw and label an animal cell as observed by the learners in a light microscope					
Ψ)	274 and 12001 an annual con as observed by the learners in a light inicroscope	3 marks)				
	· ·					
		,				
TW-0	2 INTEGRATED SCIENCE GR	ADE. 8				

5 Plant cells and animal cells have similar	rities as well as diff	erences. O	utline thro	ee differences	
between plant cells and animal cells				(3 marks))

PLANT CELLS	ANIMAL CELLS			
1 (การาชา โดยเดีย (การเลย ชายพ ซุนท์โบท์ซ ตรู มีโดย กา				

6. Matter can undergo a number of changes. Some changes are temporary while others are permanent. In the table below, indicate whether the description is a temporary physical change, a temporary chemical or a permanent change. (4 marks)

Characteristics	Temporary Physical, Temporary Chemical or Permanent Change		
a) No new substance is formed			
b) There is no change in mass			
c) The change is irreversible	્યું કે		
d) A new substance is formed but	· 10		
the change can be reversed			

7.	Grade 6 learners at Moms school were learning about the changes of states of mat	ter and their
•	application in our day to day lives. Name the changes of states of matter labelled A	$\mathbf{A} - \mathbf{D}$ in the
	diagram below	(4 marks)
	diagram below	

	•	-	·	E 4,7	
	SOLID	·. A	пбліб	В	GAS
		-	30000		88
•		-			S CON S

8.	During a tour to a fire station, Grade 8 learners learnt that for a fire to burn, there are three				
0.	components that must be present. Name the three components.	(3 marks)			
	Components that must be present that are all a line and				
	i 1l				
	iii				

9. Fire can be categorised into various classes on their causes. Outline the causes of the classes of fire shown below. (5 marks)

SHOWN DOICH.		
		Causes
K	<u> 312</u>	

•,	Chem	nical symbols are enient. Chemical s	used instead o	f names to refer	to elements sinc	e they are easier a	and mes
	or La	tin names. Match	the elements l	below with their	· Chemical symbo	ols.	(3 marks)
	i.	Sodium				• .	
	ii. iii.	Gold Potassium	• • • • • • • • • • • • • • • • • • • •				
	111.	i otassium	·····			•	
•	As greating below	rade 8 learners we guishers. Mention v.	re learning about two types of	out fire safety, the fires that can be	hey were taught a extinguished by	bout the different the fire extinguis	t types of fire her shown (2 marks)
			co				
		*		71.			
,							2 5
		sate y gry m					
	Durir	ng a visit to a pow ses of electricity. N	er generation	plant, Grade 7 le	earners at Joeshar	school learnt abo	out various (3 marks)
	i.						` ,
	ii.						
	iii.	***************************************		••••		•••••	
	labor i.	atory apparatus di	rawn below.	ii.		iii.	(3 marks)
				T			
				1000 115		00	
							,
				Train, and the same of the sam		40	
							_
•	Deriv	ved quantities in S	cience are tho	se quantities tha	t cannot be meast	red directly. They	
		lated from two or	more measure	ements. List thre	e such quantities.		(3 marks)
	i. ii.	••••••		• • • • • • • • • • • • • • • • • • • •			
	μ. iii.						
	111.		,	7			
	_D H se	cale is used to find	d the numeric	value of the leve	el of acidity or bas	sicity of a substan	ce Fill in the
	table	below correctly a	ccording to the	e pH scale		or a backan	
		Scale value		, basic or neutr	al		(3 marks)
	7			,			
	3						
	11						
	11						
					5 N- 8		