

## **GAUTENG DEPARTMENT OF EDUCATION EKHURULENI NORTH DISTRICT** NATURAL SCIENCES MID-YEAR EXAMINATION **MARKING GUIDELINES JUNE 2023 GRADE 8**

**MARKS: 60** 

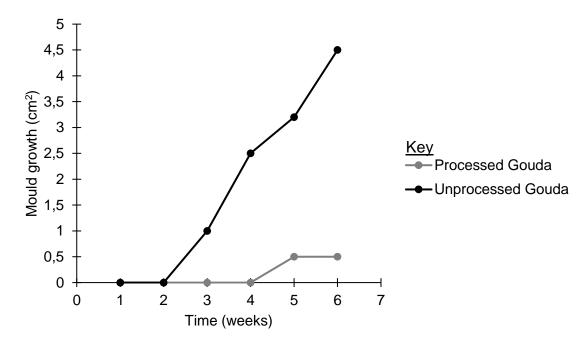
This marking guideline consists of 4 pages

		TION A: SHORT QUESTIONS STION 1: MULTIPLE CHOICE	
	1.3 1.4	D ✓ D ✓ A ✓ C ✓ B ✓	(1) (1) (1) (1) (1) [5]
	QUE	STION 2: TERMINOLOGY	
	2.1 2.2 2.3 2.4 2.5	diffusion ✓ nucleus ✓ electron ✓ density ✓ metal ✓	(1) (1) (1) (1) (1) [5]
	QUE	STION 3: MATCH THE COLUMNS	
	3.1 3.2	A ✓	(1) (1) (1) (1) (1) [5]
_		TOTAL FOR SECTION A	: 15
		TION B: LONG QUESTIONS STION 4  C \( \times \) A \( \times \) D \( \times \) E \( \times \) B \( \times \)	(1) (1) (1) (1) (1) [5]
	<b>QUE</b> : 5.1.	Gas particles move very fast. ✓ Gas particles have very large spaces. ✓ Gas particles collide with each other and with the sides of the container. ✓ There are very weak forces of attraction between the particles. ✓ Gas particles spread out to fill the container. ✓ Any 3	
	5.2.1	Diffusion is the movement of particles from a region of higher concentration to a	(3)
	5.2.1	region of lower concentration. ✓ ✓ Diffusion is slower in liquids ✓ than in gases. ✓	(2) (2)
	5.2.2	Particles in the solid are closely packed. Very small spaces. ✓ The particles have strong force of attraction hence they cannot move but vibrate fixed lattice structure. ✓	(2)

			[9]
<b>QUE</b> \$6.1 6.2	STION 6  Magnesium oxide ✓  Electrolysis ✓ heat/ thermal decomposition ✓		(1) (2) <b>[3]</b>
<b>QUES</b> 7.1 7.2 7.3 7.4	nihonium ✓ moscovium ✓ tennessine ✓ and oganesson ✓ 7 ✓ Dmitri Mendeleev ✓ B ✓; Aℓ ✓; Ga; In; Tℓ; Nh	(any 2)	(5) (1) (1) (2)
		, ,	[8]

QUES	TION 8			
8.1.1	Cork√, Wood, Metal√	(3)		
8.1.2	It has a higher density√,			
	Its particles are closely packed together√ / there are more particles/ mass in the			
	same volume	(1)		
8.1.3	Density = $\frac{mass}{maluma}$			
	V01.0.10.P.			
	$=\frac{10,5 g}{4,2 cm^3} \checkmark$			
	= $2.5$ g/cm <sup>3</sup> $\checkmark$ (with units)	(3)		
		[7]		
Question 9				
9.1	To compare the growth of cheese mould ✓ on processed Gouda and unprocessed			
	Gouda over a period of 6 weeks √. (any similar)	(2)		
9.2	Mould growth (cm <sup>2</sup> ) ✓	(1)		
9.3	In a 6 week time period cheese mould growth on the unprocessed Gouda was			
	more than the processed Gouda √.			
	(any similar) (must be in past tense)	(1)		

## 9.4 Comparative line graph to show cheese mould growth on processed Gouda and unprocessed Gouda over a period of 6 weeks



Criteria	Elaboration	Mark allocation
Type (T)	Line graph drawn ✓	1
Heading (H)	(Comparative line graph cheese mould growth (cm²) (6 week period ✓ / time (weeks)) <b>no units, no marks</b>	1
Labels (L)	Time (week) on x-axis (unit) ✓ (no units, no marks)	2
	Mould growth (cm²) on y-axis (unit) ✓	
Scale (S)	Proper number line for x-axis ✓	2
	Proper number line y-axis ✓ no tick marks, no marks	
Plotting (P)	Some points plotted correctly (1 mark only)	2
	All points plotted correctly (2 marks total)	
Key (K)	Key given and lines coloured accordingly ✓	1
Total		9

[13]

**TOTAL FOR SECTION B: 45** 

**GRAND TOTAL: 60**