

education

Department:
Education
North West Provincial Government
REPUBLIC OF SOUTH AFRICA

PROVINCIAL ASSESSMENT

GRADE 6

NATURAL SCIENCES AND TECHNOLOGY JUNE 2024 MARKING GUIDELINES

MARKS: 60

These marking guides consist of 4 pages.

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QUE	ESTION 1			
			ANSWER	
1.1				
	1.1.1.	B✓		
	1.1.2.			
	1.1.3.	C✓		
	1.1.4.	D✓		
				4
1.2	1.2.1	Solution √		
		Wetland ✓		
		Filtering ✓		
		Solvent ✓		
		Pollution√		
				5
4.0	404	Both A & B√√		
1.3	1.3.1	a a		
	1.3.2	/		
	1.3.3	A Only V		6
				[15]
QUESTION 2				<u> </u>
2.1	2.1.1		*2 Marks√ for a correct	
		Α		
			drawing with particles	
			correctly arranged. *No marks for word	
			description of arrangement.	
		00000	*No 1 mark allocation	
		Solid //	No 1 mark anocation	
		Solid		
		В		
		В		
		000		
		000		
		900		
		Liquid ✓✓		
		C		
		\bigcirc		
		Gas √√		6
		Gas √√		

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NS & TECH NW/June 2024

2.2	2.2.1						
		Mixt	ure	Method of separation			
		1.	Peanuts and beans	a) Hand sorting√			
		2.	Water and oil	b) Decanting ✓			
		3.	Salt and	c) evaporation/crystallization√			
			water		3		
	2.2.2						
	2.2.2	Salt and water. ✓ When heating the solution of saltwater the water will evaporate and leave the crystals of salt behind. ✓			r 2		
	2.2.3	will evaporate and leave the drystals of salt belling.					
		Insoluble√					
QUE	STION 3						
3.1	3.1.1	Rubric Heading with two variables(stirring and dissolving) y-axis & x-axis ✓ Drawing correct bar-graph, correct plotting of (no stirring and stirring) ✓ *1 mark if correct bar graph is drawn but incorrect plotting					
		60 ————————————————————————————————————	EFFECT OF STIRR DISSOLV	RING ON RATE OF			
		30 ————————————————————————————————————	NO STIRRING	WITH STIRRING	4		
	3.1.2	a) Temp b) Amou	erature√ ınt and grain size	of sugar√	2 [6]		

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Grade 6 – Marking Guidelines

QUESTION 4						
4.1	4.1.1	To supply water to farms near the town of Brits√				
	4.1.2	 a) Water from mines√ b) Waste from factories√ c) Fertilisers√ d) Human waste (plastics, sewers, cans, bottles) √ (any 3 relevant answers) 	1 1 1			
	4.1.3	From the farms nearby√				
	4.1.4	The growth of algae plant contaminates the water so fish and frogs die.				
4.2	4.2.1 4.2.2	 a) They hold back water and release it slowly throughout the year. ✓√ b) They are a habitat for plants and animals and provide them with food and a place to breed. ✓√ c) They filter water and ensure that its clean. ✓√ (any 2 relevant answer) 	2			
		 a) Frogs ✓ b) Fish✓ c) Crocodile✓ d) birds✓ (any 2 relevant answers) 	2 [13]			
QUE	QUESTION 5					
5.1	5.1.1	To alert or warn people that the area has water that is not safe for human to consume. $\checkmark\checkmark$				
	5.1.2	a) Cholera√ b) Diarrhea√ c) Typhoid√ d) Polio√ (any 2 relevant answers)	2			
	5.2.1	b) Filtering removes very tiny particles from the waterc) Chlorination kills any germs left in the water	2 2			
5.2	5.2.2	The process of sieving only removes large materials, it does not kill germs. Water can still be contaminated even after sieving. ✓✓	2			
5.3	5.3.1	 a) Put a funnel with a filter paper or cloth in an empty clean container√ b) Pour the water in the funnel to filter smaller bits and twigs√ c) Take the filtered water in the container and boil it for 15 minutes√ d) Allow the water to cool before use. √ (any 4 relevant answers) 	4 [14] 45			
	TOTAL SECTION: GRAND TOTAL:					