

Education and Sport Development

Department of Education and Sport Development Departement van Onderwys en Sportontwikkeling Lefapha la Thuto le Tihabololo ya Metshameko

NORTH WEST PROVINCE

NORTH WEST PROVINCIAL ASSESSMENT

GRADE 6

NATURAL SCIENCES AND TECHNOLOGY

MARKING GUIDELINES

NOVEMBER 2018

MARKS: 80

SECTION A						
QUESTION 1		ANSWER				
1	1.1.1.1.1.2.1.1.3.1.1.4.1.1.5.1.1.6.1.1.7.1.1.8.1.1.9.1.1.1.1.1.1.1.1.1.1.1.1.1.1	B√ D√ B√ D√ A√ D√ A√ C√ C√ C√ Rotation√ Telescope√ Mercury√ Asteroid belt/Asteroids√ Pluto√	10 5			
	1.3.1 1.3.2 1.3.3 1.3.4 1.3.5	F√ A√ D√ C√ B√	5			
		TOTAL SECTION A	20			
		SECTION B				
2	2.1	Decrease to zero√√	2			
	2.3	No electricity will move through the circuit because wool material does not conduct electricity.√√ Neat Circuit diagram√ Copper wire√√ Bulb√√ Bulb√√	2			
			9			

		A simple circuit			
		/ Simple direction			
		MARKING RUBRIC			
		CRITERIA	MARK ALLOCATION		
		Symbol/Labelling a cell	2 marks		
		Symbol/Labelling a bulb	2 mark		
		Copper wire symbol	2 mark		
		Closed switch	2 mark		
		Clear neat circuit diagram TOTAL	1 Mark 9 MARKS		
3	3.1.1	Kilowatt√√	3 MARRO	1	
3	3.1.1	Kilowattvv			
	3.1.2	Electric kettle√√		2	
	0.1.2	Liectric Rettie VV			
	3.1.3	Electric kettle√√		2	
	3.1.4	Electric kettle uses 2KW of electricity	y over 2 hours, as	2	
		compared to light bulb(old type) which			
		Hours. Electric kettle uses 1900 W more than what light bulb			
		uses.√√			
	3.1.5	Ways of preventing wastage of electricity.			
		 Use light bulbs that save electricity. √√ 			
		Unplug idle electronics. √√			
		Turn off lights when not need			
		Shut down computers when not using them			
		NB: Any relevant two suggestions should be credited.			
	3.2				
	3.2.1	"Electricity theft is a huge problem".	$\sqrt{}$	2	
		Liberties a riage presion :	•		
	3.2.2	Illegal connections results in the second connections results in the second connections.	the system beina	4	
		overloaded and causes electricity tripping. $\sqrt{}$			
		It also poses a danger of fires breaking out or people			
		getting killed $\sqrt{}$	3 1 1		
		These connections are made	in an unsafe manner and		
		are dangerous.			
		 Illegal connections are hazar 	dous and can		
		cause <u>electrocution.</u> Illegal co			
		those who steal electricity, bu	it most of the time innocent		
		children playing in the streets			
		end up paying the ultimate p			
		 The people who set up these 	•		
		also in danger of getting elect	•		
		qualified electricians. Their ac	ctions leave the whole		
		community vulnerable			
		NB: Any two relevant responses should be credited			

3.3	3.3.1	Renewable source of energy is energy that is collected from renewable resources, which are naturally replenished, such as sunlight, wind, rain, tides, waves and geothermal heat. $$	2			
	3.3.2	6A: Solar panels. $\sqrt{}$				
	3.3.3	Combustion of coal to generate electricity causes air pollution. √ Combustion of coal contributes to greenhouse effect. √ Combustion of coal contributes to global warming NB: Any relevant response should be credited.	2			
		TOTAL SECTION B	37			
SECTION C						
4	4.1.1	Mercury, √ Venus, √ Earth√ and Mars√	4			
	4.1.2	Gravity√√	2			
	4.1.3	365¼ days√√	2			
	4.1.4	1 Moon√√	2			
	4.1.5	Moon√√	2			
	4.1.6	Venus√√	2			
	4.2.					
	4.2.1	August 2012	1			
	4.2.2	 Scientists want to determine whether Mars ever had an environment capable of supporting life or not. √√ Scientists are interested in Mars because they think that Mars might have once had liquid water on its surface√√ 	4			
	4.3 4.3.1	Telescopes can be used to see and measure how far away objects in space are. $\sqrt{}$	2			
	4.3.2	Square Kilometre Array. $\sqrt{}$	2			
TOTAL SECTION C						
GRAND TOTAL						