



Noah's Ark Independent Primary School

Subject: NS&T	Examiner: Moyo, S.
Type: End of 3 rd Term Assmt.	Moderator: Rwizi, A.
Date: // September 2019	Grade: 5
Marks: 50 Marks	Time: 1 hour 15 minutes

Name: _____

Instructions:

Answer ALL the questions in the spaces provided.

Write neatly and legibly

Carefully read all questions before answering

1. Match the words in column A to the correct meanings in column B. Answer in the space provided. (6)

Column A	Answer	Column B
Fossil fuels		a) Electricity from power stations.
Terminals		b) Stored energy mined from the Earth's crust.
Electrical energy		c) Input energy for an electrical system.
Battery		d) Ends of a cell or battery.
Mains electricity		e) Source of heat and light energy.
Fire		f) Groups of cells

2. Describe how electrical energy gets to our homes. Fill in the missing steps. (3x2)

Step 1:

Step 2: Electricity is sent to transformers where power is Increased.

Step 3:

Step 4: Sub-stations decrease the electricity.

Step 5:

Step 6: From here it travels through the wires to the socket in the wall.

3. What is the main source of energy used to generate electricity in South Africa? (1)

4. Fuels are sources of useful energy.

4.1 List three everyday fuels. (3)

4.2 Name one thing that everyday fuels need to catch alight. (2)

5. We burn fuel to get useful output energy.




5.1 Predicts what will happen to a candle if a glass jar is placed over it. (1)

5.2 Explain why this will happen. (2)

6. Fire produces useful energy, but it is also dangerous. Give at least 3 tips on how to prevent harmful fires. (3)

7. Peter has a pile of wood that is not giving off any heat he is worried and asks you what could be wrong. Explain to him. (3)

8. Humans use different sources of fuel for useful energy. Complete the table below. (6)

Picture of fuel	Name of fuel	Input energy	Output energy	Use of the energy
				
				
				

9. Emma set up a circuit with two cells and two light bulbs. The bulbs did not light up when Emma had finished connecting her circuit.

9.1 Suggest three things that she could do to try to get the bulbs to light up. (3x2)

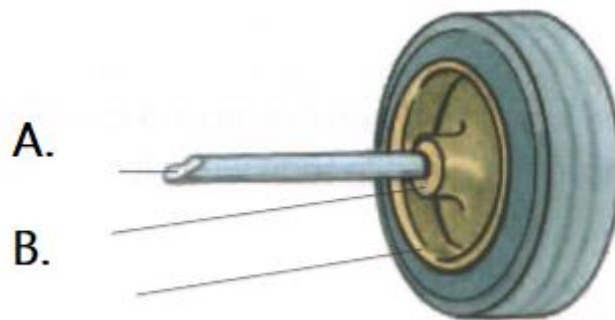
10. Look at the picture of a bicycle below.

10.1 Explain why a bicycle is a system. (2)

10.2 State two reasons why a wheel needs an axle. (2x2)

10.3 Distinguish between a fixed axle and a turning axle. (4)

11. Look at the image below.



Label the letters A and B. (1)

A: ----- B: -----