



# education

DEPARTMENT: EDUCATION  
MPUMALANGA PROVINCE

## GENERAL EDUCATION AND TRAINING

**NATURAL SCIENCES AND TECHNOLOGY**

**GRADE 5**

**MEMORANDUM**

**NOVEMBER 2024**

MARKS: 40


This memorandum consists of 4 pages

## SECTION A: ENERGY AND CHANGE

### QUESTION 1

- 1.1. C✓ Oxygen (1)  
 1.2. D✓ Power station (1)  
 1.3. A✓ Light (1)  
 1.4. B✓ Stretch (1)  
**(4)**

### QUESTION 2

No	STATEMENT	TRUE	FALSE
2.1	Wood is a material that can transfer electrical energy		✓
2.2	Stored energy in cells is chemical energy	✓	
2.3	 This connection will provide light.		✓
2.4	A catapult stretched elastic system is used to move stones	✓	

**(4)**

### QUESTION 3

NO	Column A	Column B	Answer
3.1	Energy obtained from fuel, for example heat and light.	A. Power lines	C✓
3.2	To load energy into a spring you must ____.	B. Circuit	D✓
3.3	Large steel tower-like structure supporting electrical cables.	C. Output energy	A✓
3.4	A pathway that allows electricity to flow or a system that allows electrical energy to move	D. Compress	✓B
		E. Stretch	

**(4)**

### QUESTION 4

- 4.1. (3)  
 A = Power station✓ (1)  
 B= Pylons✓ / Power lines (1)  
 D = Homes✓ Buildings, Houses (1)  
 4.2. Stepdown the electricity voltage✓ (1)

- 4.3. The human being will die as the fork is a conductor of electricity✓ (1)  
 Electric shock  
 The electricity will trap off.  
 The toaster can be damaged too.  
 The house can catch fire.

**Any other relevant answer**

- 4.4. Do not play with electrical appliances✓ (1)  
 Do not repair electrical appliances whilst connected to the wall socket

**Any other relevant answer**

**(6)**

### QUESTION 5

- 5.1.  
 5.1.1. Petrol✓ / diesel. (1)  
 5.1.2. He is smoking near the dangerous flammable fuel✓. (1)  
 It will catch up on fire✓ (1)  
 kill people  
 destroy garage and nearby households  
 destroy cars

**Any other relevant answer**

- 5.1.3. Wood✓, Coal, Food, oil, gas . (1)

- 5.2.  
 5.2.1. Elastic ✓ (1)  
 5.2.2. Compressed✓ (1)  
**(6)**

**TOTAL SECTION A: 24**

### SECTION B: PLANET EARTH AND BEYOND

#### QUESTION 6

- 6.1. D✓ Shells (1)  
 6.2. B✓ Fossils. (1)  
**(2)**

#### QUESTION 7

No	STATEMENT	TRUE	FALSE
7.1.	Clay soil holds more water.	✓	
7.2.	Petrol support all life on Earth.		✓

**(2)**

### QUESTION 8

NO	Column A	Column B	Answer
8.1	Surface of the Earth	A. Cradle of Humankind	D✓
8.2	The South African heritage site	B. Deposition	A✓
8.3	How sedimentary rocks form	C. Planet	B✓
		D. Crust	

**(3)**

### QUESTION 9

9.1.

9.1.1.

Land✓ (1)

Water✓ (1)

9.2.

9.2.1. A✓.Topsoil (1)

9.2.2. B✓Subsoil (1)

**(4)**

### QUESTION 10

10.1. Oldest = C✓ (1)

Newest = A✓ (1)

10.2. The first sediment is the first layer and therefore at the bottom✓ (1)

If more get added later, it goes on top of that.

**(3)**

### QUESTION 11

11.1.

Picture A: Trace✓ fossils (1)

Picture B: Body✓ fossils (1)

**(2)**

**TOTAL SECTION B: 16**

**TOTAL MARKS:40**