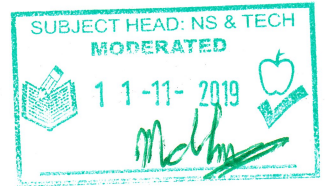




L/S VAN DYK PRIMARY

EXAMINATION – TERM 4 2019

GRADE 4



Memo

NATURAL SCIENCES AND TECHNOLOGY

DISTRICT: Ekurhuleni South District

DATE: 6 November 2019

DURATION: 1 HR

EXAMINATOR: Ms. L. Opperman

MODERATOR: Mrs. M. Du Preez

NAME OF LEARNER: Memo

GRADE: 4. CLASS LIST NUMBER:

QUESTION	1	2	3	4	5	6	Total	LEVEL							
MAXIMUM MARK	6	5	7	6	6	10	40	1	2	3	4	5	6	7	
LEARNER'S MARK															%

INSTRUCTIONS

1. Answer all the questions **ON THE PAPER.**
2. Ensure that all details on the cover page have been completed
3. Spelling and grammar is important, please check your work before handing in your paper.

Question 1 – Circle the correct answer

[6]

- 1.1 Which statement best describe how a musical instrument work? (1)
- A. Musical instruments make sounds through the use of electricity.
 - B. Musical instruments make sounds through vibrations.
 - C. Musical instruments make sounds through swinging them.
 - D. Musical instruments make sounds through beating actions only.
- 1.2 Sound energy is a type of energy that you can _____. (1)
- A. See
 - B. Hear
 - C. Store
 - D. Touch
- 1.3 The sun gives us _____ and light energy (1)
- A. Heat
 - B. Sound
 - C. Kinetic
 - D. Movement
- 1.4 All energy on earth comes directly or indirectly from _____. (1)
- A. Coal
 - B. Power stations
 - C. Green plants
 - D. The Sun
- 1.5 The Moon is a _____, round rocky object that orbits Earth. (1)
- A. Cold
 - B. Beautiful
 - C. Windy
 - D. Warm

1.6 The Sun and stars do not really move, they only appear to move because _____ (1).

- A. The Earth revolves around its own axis
- B. We get dizzy looking up at the stars
- C. Planets orbit around the Sun
- D. The Moon revolves in an orbit around the Earth

Question 2 [5]

State whether the following statement are TRUE or FALSE.

- 2.1 Light is the energy that travels in rays. True (1)
- 2.2 The Sun is much bigger than the Earth. True (1)
- 2.3 Piano is not a musical instrument. false (1)
- 2.4 Mercury is the closest planet to the Sun. True (1)
- 2.5 A round shape, like a ball is called a sphere. True (1)

Question 3 [7]

Provide the scientific name / term for each of the following statements:

- 3.1 Objects in space that gives off their own light. (1)
Stars
- 3.2 A cold, round object that moves around earth. (1)
Moon
- 3.3 A very bright star that gives light and warmth to Earth. (1)
Sun
- 3.4 Unending darkness beyond Earth's atmosphere. (1)
Space

3.5 A large object that moves around a star. (1)

Planet

3.6 Long tall structure that can be propelled into space. (1)

Rocket

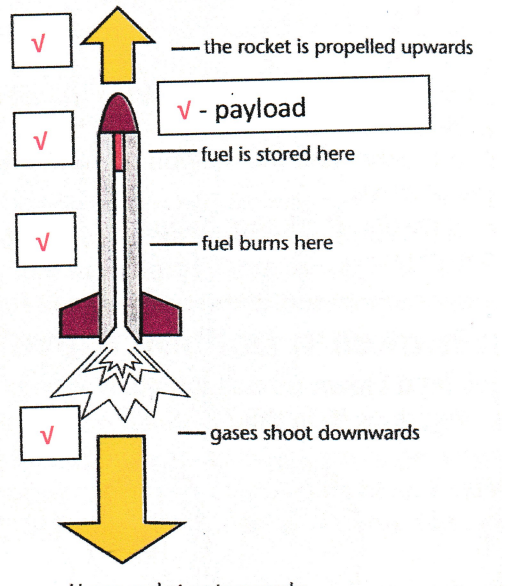
3.7 To send a spacecraft into space. (1)

Launch

Question 4

[6]

Look at the labels given in the box below about a rocket. Use these labels to DESIGN (draw) how a rocket system works.



The diagram shows a rocket with a yellow arrow pointing up and a yellow arrow pointing down. Labels with checkboxes are as follows:

- the rocket is propelled upwards
- payload
- fuel is stored here
- fuel burns here
- gases shoot downwards

How a rocket system works.

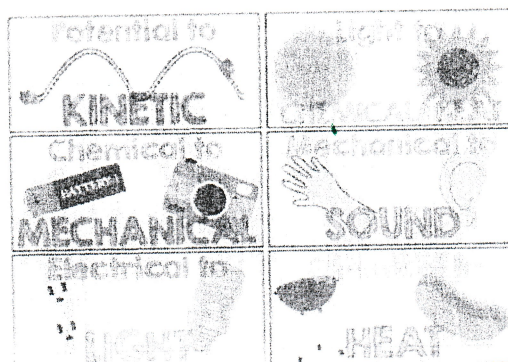
Labels to be used for design:

- The rocket is propelled upwards
- Payload
- Fuel is stored here
- Fuel burns here
- Gasses show downwards

(6)

Question 5

[6]



Look at the picture above.

Energy can go from a source of energy to where it is needed. This is called energy transfer. During this process one type of energy may change to another type.

Suggest 6 appliances and the output of energy it produces. One has been done as an example:

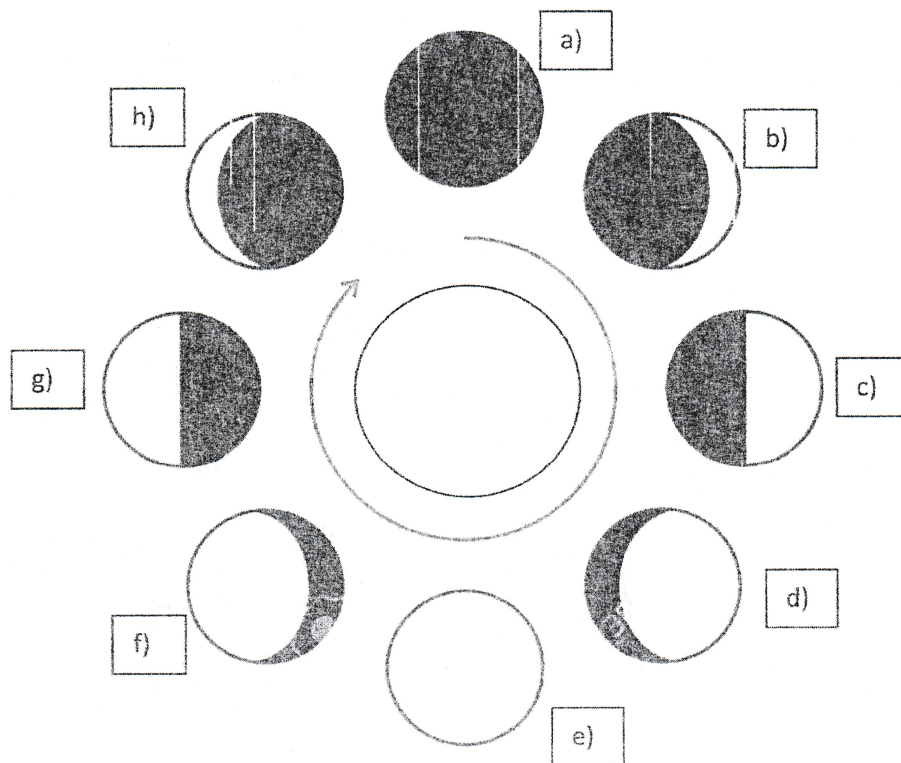
5. Torch = Light energy

1. Radio = Sound energy
2. Kettle = Heat energy
3. Hair dryer = Sound / Heat / Movement energy
4. Lamp = Light energy
5. Fan = movement energy
6. Iron = Heat energy

Question 6

[10]

Look at the picture below and answer the questions that follow:



6.1 Write down the names of the moon patterns below?

(8)

- a) New Moon
- b) Waxing Crescent / Crescent Moon
- c) First quarter / Half Moon
- d) Three quarter / Waxing gibbous
- e) Full Moon
- f) Three quarter / Waning gibbous
- g) Last quarter / Half Moon
- h) Crescent / Waning Crescent

6.2 What is this moon patterns called?

(1)

Phases of the Moon.

6.3 How long is a lunar month?

(1)

29.5 days

TOTAL: 40