



**THE KENYA NATIONAL EXAMINATIONS
COUNCIL**

SCHOOL BASED ASSESSMENT

SCIENCE AND TECHNOLOGY

Grade 4 - 2023

LEARNER'S NAME: _____

ASSESSMENT NUMBER: _____ **DATE:** _____

SCHOOL NAME: _____

INSTRUCTIONS TO LEARNERS

1. *This paper consists of 20 questions.*
2. *Answer ALL the questions in the spaces provided.*

The grid below to be filled by the teacher after marking the learners' work. During uploading, the teacher to upload the number of questions correctly scored per task.

Tasks	Living things	Environment	Digital Technology	Matter	Force and Energy	Earth and Space
Question Numbers	1 - 5	6 -8	9 -10	11 - 13	14 - 18	19 - 20
Max. Score	6	4	3	3	6	3
Learner's Score						

This paper has 7 printed pages.

TURN OVER

Answer ALL the questions in the spaces provided.

1. Dorothy added water to a withering plant. After 2 days the plant became healthy as shown in the pictures below.



Withering plant



Same plant after 2 days

Which characteristic of plants as living things is shown by the pictures?

(1 mark)

2. The pictures below show a camel at birth and the same camel after 1 year.



At birth

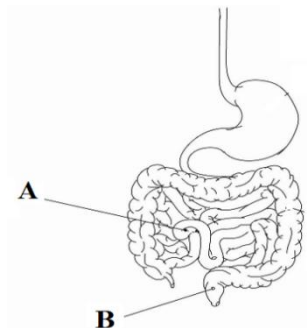


After one year

Which characteristic of animals as living things is shown by the pictures?

(1 mark)

3. Grade 4 learners grouped animals as vertebrates and invertebrates. The difference between the two groups is the presence of _____ in the vertebrates. (1 mark)
4. The drawing below shows the human digestive system drawn by Grade 4 learners.



Name the parts labelled:

A _____

(1 mark)

B _____

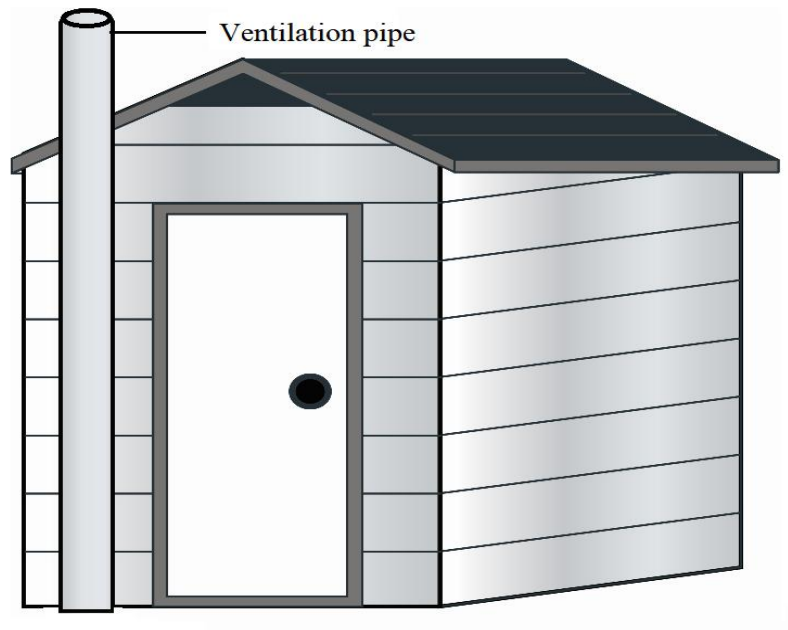
(1 mark)

5. Aden used clay to model a type of tooth shown below:



This type of tooth is called _____ (1 mark)

6. The picture below shows a pit latrine seen in a school.



The ventilation pipe is used to _____ (1 mark)

7. The picture below shows a tanker pouring water on a part of a road under construction.



Pouring water on the road reduces air pollution caused by _____ (1 mark)

8. A factory was releasing waste into a nearby river.
Write **two** effects of this action on living things. (2 marks)

9. The following are pictures of some digital devices named by Grade 4 learners during a Science and Technology lesson.

Digital devices



Name

Keyboard

Mouse

Monitor

Tablet

Match the pictures to their correct names.

(2 marks)

10. In a coded language:

A is 1

D is 4

B is 2

E is 5

C is 3

F is 6

Using this code, the word BED is coded as 254.

Write the code for the word FACE.

(1 mark)

11. Grade 4 learners grouped things in their class as shown below:

Group 1

Chairs

Desks

Bags

Group 2

Juices

Pens

Soil

Group 3

Kites

Bread

Water

Which group has solids only?

(1 mark)

12. The picture below shows a boy swimming using a floater.



State the use of the floater. _____

(1 mark)

13. The following are pictures of objects that were used to show objects that can float and those that can sink.



Tick the object that sinks in water.

(1 mark)

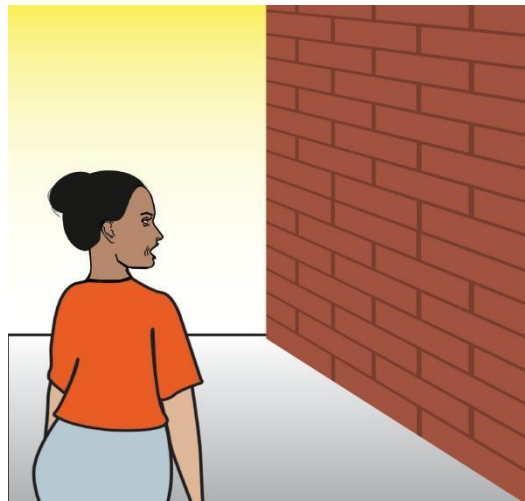
14. The picture below shows a boy pushing a tyre.



Write the effect of force on the tyre.

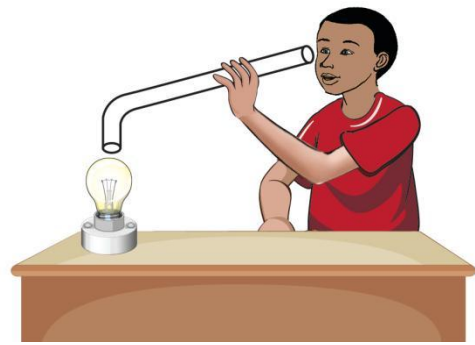
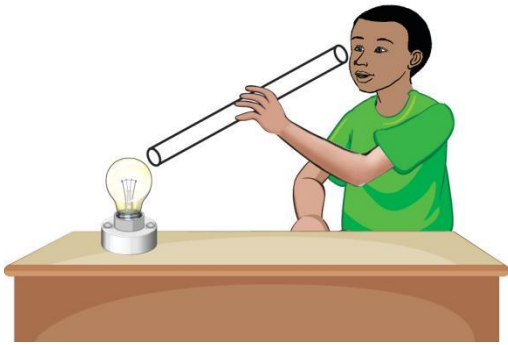
_____ (1 mark)

15. The pictures below show a girl shouting while facing a high wall.









The girl heard her echo because sound can be _____ (1 mark)

16. The pictures show an experiment used to demonstrate a property of light.



The property being demonstrated is that light travels in a _____ . (1 mark)

17. A Grade 4 learner classified items found at home as good conductors and poor conductors of heat as shown below.

Good conductors of heat	Poor conductors of heat
	
	
	

Tick the item which was wrongly classified? (1 mark)

18. The drawing below represents a lever in use.



Name the parts of the lever labelled: X _____ (1 mark)

Y _____ (1 mark)

19. The diagram below represents a type of cloud drawn by a Grade 4 learner.



Name the cloud.

(1 mark)

20. The picture below shows an activity taking at home.



The best weather for the activity is _____ and _____ (2 marks)