



THE KENYA NATIONAL EXAMINATIONS COUNCIL

SCHOOL BASED ASSESSMENT

INTEGRATED SCIENCE

Grade 7 – 2024

LEARNER'S NAME: _____

ASSESSMENT NUMBER: _____ **DATE:** _____

SCHOOL NAME: _____

INSTRUCTIONS TO LEARNERS

1. This paper consists of **9** 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 scores per task.

Tasks	Scientific Investigation	Matter, Elements and Compounds	Living Things	Force and Energy
Question Numbers	1 - 2	3 - 4	5 - 7	8 -9
Max. Score	4	8	9	4
Learner's Score				

This paper has 5 printed pages

TURN OVER

1. In a science laboratory, there are several possible causes of accidents. It is therefore important to always observe safety in the laboratory. During a discussion on safety in a science laboratory, learners listed the following as possible causes of accidents:

Sharp objects

Radioactive materials

Corrosive substances

Tick the likely cause of burns? (1 mark)

2. The diagram below shows an instrument used to measure a certain physical quantity in hospitals.



a. Identify the instrument. (1 mark)

b. State whether the physical quantity measured by the instrument is derived or basic?(1 mark)

c. Write the SI unit of the physical quantity measured by the instrument. (1 mark)

3. Mixtures are two or more substances physically combined. Learners identified different mixtures and categorised them into two as shown in the table below:

Category 1	Category 2
Salt solution	Sand and iron filings

a. Name the type of mixture in:

Category 1 _____ (1 mark)

Category 2 _____ (1 mark)

TURN OVER

b. Name the method that can be used to separate the components of the mixtures in:

Category 1 _____ (1 mark)

Category 2 _____ (1 mark)

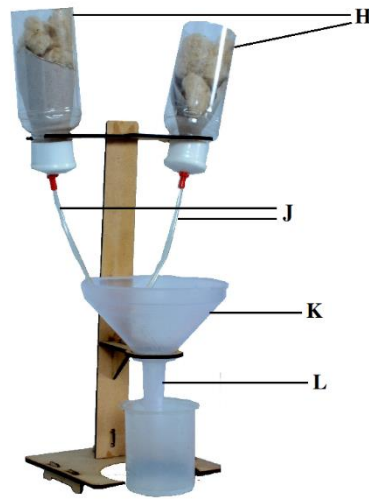
4. Learners were provided with coloured flowers to prepare an acid-base indicator. However, the learners did not have a suitable solvent. Describe an alternative method the learners could have used to prepare the indicator. (4 marks)

5. During a lesson on parts and functions of the human male reproductive system, learners listed parts and functions of the human male reproductive system. Match the listed parts with their functions. (2 marks)

Urethra	Produces urine Passes sperms out of the body.
Testes	Produce ova. produce semen.

TURN OVER

6. During an Integrated Science project, a learner made a model of the urinary system as shown in the picture below. (4 marks)



Name the parts of the urinary system represented by:

H: _____

J: _____

K: _____

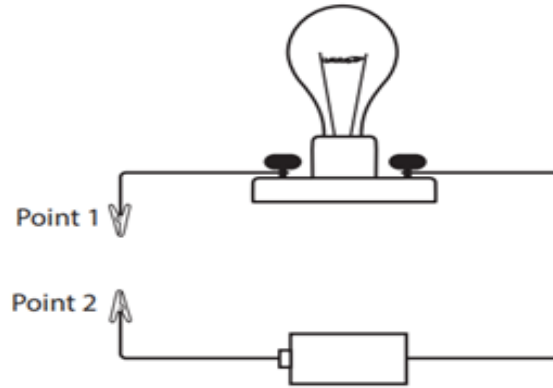
L: _____

7. Adolescence is a phase of growth and development between childhood and adulthood. During adolescence, physical changes occur in both boys and girls. Some of these changes occur only in boys, others occur only in girls while others are common to both boys and girls. Using lines, match the boys and girls with the changes they experience during adolescence. (3 marks)

Girls	Growth of beards
Boys	Voice becoming sharp
	Enlargement of breasts

TURN OVER

8. The following diagram shows a lightbulb connected to a battery in an electrical circuit.



a. Which of the two objects in the diagram below when connected to Point 1 and Point 2 will make the bulb to glow? (1 mark)



Plastic peg



Steel nail

b. Give a reason for your answer in (a). (1 mark)

9. The figure below shows two carts each holding a magnet. The carts were moved close together and then left free.



Using a diagram, describe what could have happened to the carts. (2 marks)

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