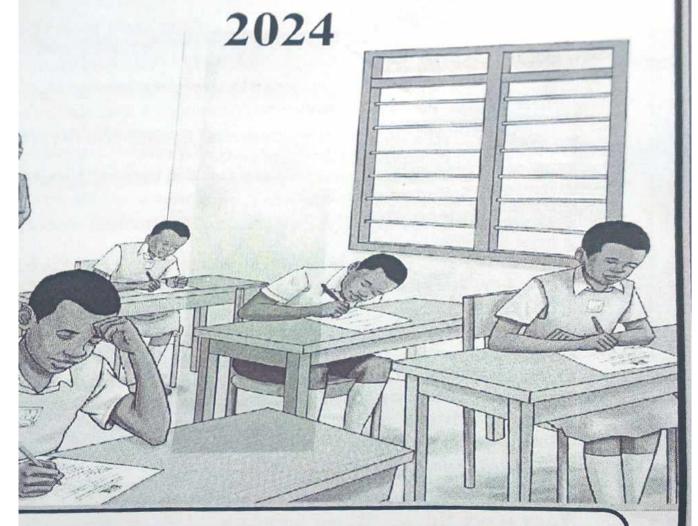
## REKEY EXAMINATIONS BOARD



t speak for Quality, Let Quality Speak for itself"



RATED SCIENCE LOWER SERIES

OFFICIAL MARKING GUIDE

## SECTION A: 40 MARKS

Name the best season for harvesting sweet potatoes. Wet season/rainy season (reject: dry season)

State any one role of the school health committee in the promotion of

To organize cleaning campaigns in a community

To supervise Primary Health Care school//To plan for the health To conduct health parades in the school//To plan for the health To conduct health parades the hygiene//To monitor the he activities//To monitor children's hygiene//To monitor food

Give any one factor that favours the breeding of bacteria in an area.

By what process does the body release energy from digested food?

By respiration iagram below shows a bottle of soda. Study and use it to answer questions

- Name the gas enclosed in the space marked D. 5. -DCarbon dioxide
  - Why do soda manufacturers usually leave the space marked b 6. To give/create space for the increase in volume of

State any one way in which capital is important when planning to start a goat keeping project.

Capital is used to buy land//construct farm structures//buy goats to be reared//pay workers and experts on the goat farm// buy acaricides and necessary equipment//prepare pasture

Write down any one simple message that can be displayed around the school compound to encourage good health habits.

Keep the compound clean//Dump rubbish in the dustbin/ rubbish Follow PIASCY messages //Wash hands after visiting the latrine Do not litter rubbish in the school compound Obey Standard Operation Procedures(SOPs)

(accept specific PIASCY or SOPs messages)

State any one characteristic of forms of energy.

They have the ability to do work

They can be transformed from one form to another

Name the disease of teeth whose signs are swollen gums, bright red gums and bleeding gums when brushing teeth.

Scurvy

- 11. Give any one way in which minerals can be conserved.
  Having controlled mining//Making Alloys
  Painting metals to avoid rusting//Recycling metal scraps
- 12. State any one danger of buying essential drugs from local shops.
  A person may buy expired drugs//One may buy contaminated drugs
  One may buy sub-standard drugs
  A person may buy drugs that are not well prescribed
- 13. Give any one way in which people use inclined planes in their daily life. People use ramps to load or offload goods on vehicles People use ladders for climbing tall buildings or trees Winding roads help people to climb mountains or steep hills easily. Staircases are used to climb tall buildings with ease Planks are used to raise building materials during construction A slide is used as a playing material by children.
- State any one reason why a wire mesh should be used when constructing a house for domestic rabbits.

To allow light into the hutch To allows free air circulation

- State any one effect of physical changes in the environment.
  They cause rain formation//They change the volume and density of objects//They change the shape of objects//
  They cause cooling//They form dew in the environment
- 16. State the importance of using sugar when preparing Oral Rehydration Solution (ORS) for a dehydrated patient.
  To replace the lost energy/ to restore body energy

he diagram below shows a waste management activity commonly done by cople in our community. Use it to answer questions 17 and 18.



17. Identify the waste management activity shown in the diagram above.

Recycling wastes

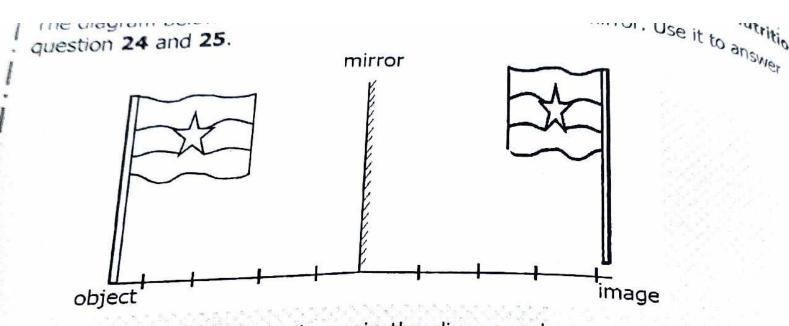
18. Give any one way in which the activity above helps in the management of wastes in the environment.

It reduces the accumulation of the car tyre wastes in the environment It controls soil pollution by old car tyres

Vrite down any **one** method of preserving food that drains moisture from ne foodstuff.

un drying// Smoking// Salting





What type of mirror is shown in the diagram above?
Plane mirrors

Complete the diagram by drawing the image to show its appearance in mirror. **DONE** 

State any one disadvantage of treating water using chemicals like chlorochemicals like chlorone add taste and bad smell in water//do not make water clear// are expensive

Apart from brewing alcohol, give any one other way in which ferments is helpful to people. It helps in production of biogas//It helps in making dairy products//It helps in the making of compost making dairy products//It helps in the making of compost making of compost making dairy products//It helps in the making of compost making dairy products//It helps in the making of compost making dairy products//It helps in the making of compost making dairy products//It helps in the making

State any one way in which hardening off is important in crop growing the seed ings to adopt / get used to different weather conditions



29. In which way does a hyena benefit from living in the same environment with a lion?

A hyena feeds on flesh/meat abandoned/left by a lion

- 30. State any one advantage of using hydroelectricity in solving daily problems. Electricity makes work easy//Electricity is quick and saves time. It reduces the cutting down of trees for wood fuel. It does not produce smoke which pollutes air Electricity produces clean work
- 31. State any one condition that can lead to fainting in an individual.

  Prolonged hunger//vigorous physical exercises// shocking
  news//excessive bleeding//standing in the sunshine for so
  long//great fear//being frightened

. Apart from mosses and ferns, name any **one** other plant that reproduces by means of spores.

Liverworts//Horsestails//Hornworts

State any one natural factor that can lead to low food production in an area.

Crop pests//floods//Prolonged drought//Strong wind//

Heavy rainfall// Soil infertility/soil exhaustion//

State the difference in functioning between the cortex and medulla in the human kidney.

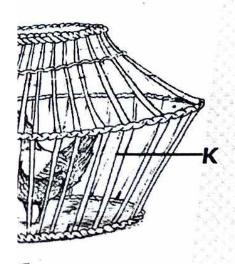
The cortex filters blood while medulla reabsorbs useful materials

State any one factor that can make sorted seeds fail to germinate after lanting. Rotten seeds// Immature seeds// Seeds smeared with il//Overstayed seeds/too old seeds//Damaged seed embryo// ick of necessary conditions. (Reject: hard testa/seed coat)

ve any **one** way in which a rain gauge can be made to measure the curate amount of rainfall received in an area.

tting the rain gauge in an open flat place/area//raising the part the rain gauge few metres from the ground.

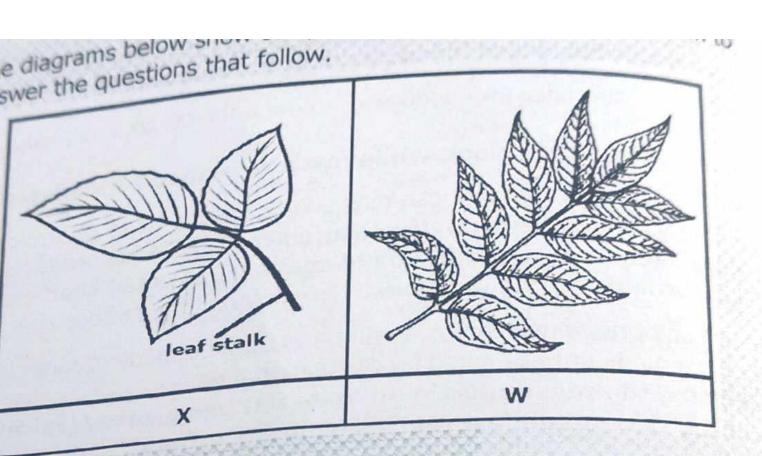
am below shows the local method of keeping poultry. Use it to answer 37 and 38.



Name the system of keeping poultry shown above.

Fold /pen system

38. Mention any one way in which the structure marked K can be a danger to the birds. Birds can easily be attacked by dangerous wild animals// Birds can easily be affected by harsh weather conditions// Birds lack physical exercises



Name the compound leaves marked X and W.

(i) X: trifoliate leaf

(ii) W: pinnate leaf

Give any one plant that has the compound leaf marked X. Beans//Ground nuts//Peas//Soya beans// Cow peas
On the compound leaf marked W, label the leaf stalk.

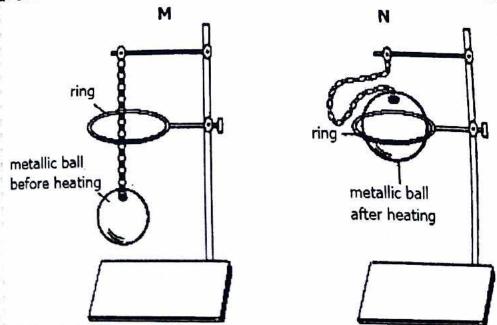
DONE

	Cause	Sign of the disease
cer	Smoking	Shortness of breath
osis	bacteria	Blood stained sputum
а	bacteria/virus	Difficulty in breathing
enza	virus	Nasal congestion

- a) Name the step used in cleaning clothes that removes;
  - (i) Soapy water from clothes: Rinsing
  - (ii) Excess water from clothes: Wringing
- b) Give any **one** natural resource that is helpful to people when cleaning clothes at home. **Sun//Wind//Water**
- (c) Why is water obtained by distillation not good for drinking?

  It lacks mineral salts

the diagram below shows an experiment on how heat affects matter. Study and use it to answer the questions that follow.



functions in part **B**.

Part A: Parts of the human heart.	Part B: Functions	
(i) Pulmonary Artery	Transports oxygenated blood to the heart	
(i) Pullionary rucery	Prevents oxygenated and de-	
(ii) Aorta	oxygenated blood from mixing.	
	Transports de-oxygenated blood to the lungs	
iii) Septum	Transports oxygenated blood to all	
v) Vena Cava	body parts.	

atch correctly the parts of the heart with their functions in the spaces ovided below.

Pulmonary Artery: Transports de-oxygenated blood to lungs

Aorta: Transports oxygenated blood to all body parts

Septum: Prevents oxygenated blood and de-oxygenated bloof from mixing

Vena Cava: Transports de-oxygenated blood to the heart



Write down any two organic materials used when making compost mature.

compost mature.

plant leaves//Banana peelings//Dry grass//Leftover food state one way in which a farmer can increase decomposition of organic matter when making compost manure.

organic matter when making compost manure.

organic matter when making compost manure.

pouring/sprinkling water in the compost pit or on the heap pouring/sprinkling water in the compost pit or on the heap pouring from compost manure, name any one other example of natural fertilisers.

natural fertilisers.

parmyard manure//Organic mulches//Green manure

Write down any two services provided to pregnant mothers during

onte-natal care.

Suidance and counselling//Testing for HIV/AIDS//
Suidance and against tetanus

Give any two disorders that affect the human reproductive system.

Ectopic pregnancy//Fibroids//Impotence//Low sperm

Ectopic pregnancy//Uterine prolapse//Malformed

Ecount//Sterility//Uterine prolapse//Malformed

Eperms//Deformed penis

Give any **two** practices that can harm cattle when grazing them in the field.

Reating cattle//Overstocking//Piercing cattle//Bestiality/Beating cattle to fight//Making the rope too tight when tethering the cattle//Improper disposal of polythene bags

Mention any **one** way in which a newly born calf benefits from colostrum.

It opens the digestive tract of the calf//It boosts immunity calf//It provides proteins to the calf for proper growth

State the difference in the way in which a lactometer and a strip cup are used on the farm.

A lactometer determines the amount of fats and water in m



Points A and B.

i) A: Potential energy

ii) B: Potential energy

State the energy change that takes place to the ball at point **B** and point **C**.

Potential energy changes to kinetic energy

Name any **one** form of energy experienced by the ball at point **C** as the goal keeper receives it.

Sound energy//Heat energy

A butcher slaughtered a cow in his abattoir and found tapeworms in the cow's meat. Identify the following from the statement above;

(i) parasite : Tapeworms

(ii) host : A cow

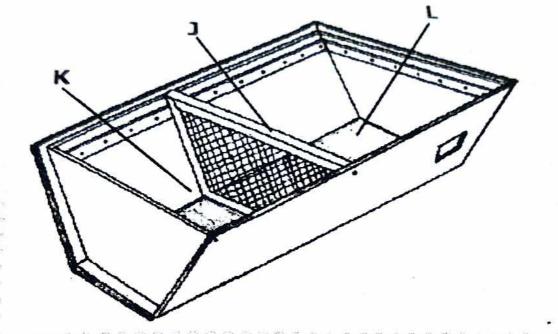
State any one way in which the tapeworm benefited from the cow.

Tapeworms get food from the cow// Tapeworms get shelter from the cow

What health condition would people get when they eat the cows neat in the above statement?

apeworm infestation





Identify the modern beehive shown in the diagram above.

Top bar hive

Name the parts of the modern bee hive above marked I and L.

(i) J: Queen excluder

(ii) L: Brood chamber

State the importance of the part marked **K** on the modern been bove.

t is where honey is stored

