



THE DREAM EDUCATION CONCERN

"Quest for excellence"



PRIMARY SEVEN INTEGRATED SCIENCE PRE-MOCK SET II 2025

OFFICIAL MARKING GUIDE



**PRE-MOCK
SET 2
2025**

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FOR ALL EXAMINATIONS FROM BABY TO P.7

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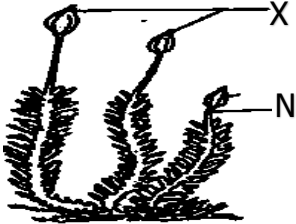
TURN OVER

SECTION A (40 MARKS)

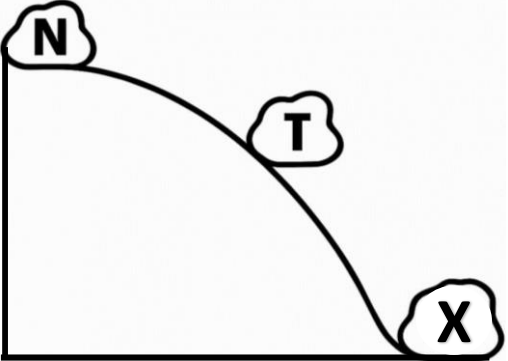
NO	RESPONSE AND RELATED CONTENT	K.C.A (QUESTI ON LEVELS)	CLASS	TOPIC	TERM														
1	Name any one material which is used to manage rainy weather in our community. -Gumboots -Rain coats -Umbrellas -Sweater Related content Elements of weather Elements of weather are factors that lead to changes in weather Elements of weather differ from types of weather though some pupils are not very good at differentiating them. So the teachers will use the table below to help them understand the difference between them. A table showing difference in elements of weather and types of weather <table><tr><th>Types of weather</th><th>Elements of weather</th></tr><tr><td>Windy weather</td><td>Wind</td></tr><tr><td>Sunny weather</td><td>Sunshine</td></tr><tr><td>Rainy weather</td><td>Rainfall</td></tr><tr><td>Cloudy weather</td><td>Cloud cover</td></tr><tr><td>Humid weather</td><td>Humidity</td></tr><tr><td>Hot or cold weather</td><td>Temperature</td></tr></table>	Types of weather	Elements of weather	Windy weather	Wind	Sunny weather	Sunshine	Rainy weather	Rainfall	Cloudy weather	Cloud cover	Humid weather	Humidity	Hot or cold weather	Temperature	K	P4	Weather changes around us	1
Types of weather	Elements of weather																		
Windy weather	Wind																		
Sunny weather	Sunshine																		
Rainy weather	Rainfall																		
Cloudy weather	Cloud cover																		
Humid weather	Humidity																		
Hot or cold weather	Temperature																		
2	Write the commonest and cheapest method of making water safe for drinking. Boiling Related content Reasons why drinking water should be boiled Boiling kill all germs in water Other methods of making / preparing water safe	K	P6	Science at home and in our community	3														

	(-) Chlorination (-) Fluoridation Disadvantages of using chemicals to treat water -Chemical do not make water clear -Chemicals are expensive to buy -Chemicals add smell and taste in water Methods of preparing clean water for washing clothes and utensils as well as bathing -Filtration -Decantation -Distillation Ways in which filtration is useful to people -It helps in separating tea leaves from tea -It is used in preparing of local salt -It is used in separating juice from seeds				
3	In which one way can farm records be important to dairy farmer in Kiruhura district? -Records help a farmer to plan for the farm -Records help a farmer to know the income and expenditure on the farm -Records help a farmer to identify new areas of development and investment of surplus income -Records help a farmer to know the profit and losses on his farm -Records help a farmer to make sound mind decision regarding the project on his farm. -Records are used as references by money lenders or banks in evaluation of the farmer in case of a need of a development Related content Examples of farm information on farm records -Amount spent on vaccination and feeding -Size of paddocks -Date of planning -Type of fertilizers used for planting incase of a crop farming project	C	P6	Keeping cattle	2

	-Dates when animals got pregnant -Dates when animals will give birth -Health status of animals and crops on the farm Examples of farm records -Production records. -Feeding records. -Health records. -Sales records. -Inventory records. -Breeding records. Ways how health records are important to a farmer -It helps to know the expenditure of treating animals by a farmer. -It helps a farmer to plan for the health of the animals. -It helps a farmer to identify health animals on the farm. -It allows a farmer to carry out culling of sick animals easy.				
4	Write the main reason why car tyres wear faster on tarmac roads than murram roads. There is increased friction on tarmac roads than murram roads. Related content Friction is the force that opposes movement between surfaces in contact. Factors that affect friction -The nature of the surface. -The weight of the surface. Types of friction Static friction This is the type of friction experienced by stationary objects. Cases where static friction is experienced -A flask on the table. -A nail fixed in the timber. -Soldiers standing on the assembly. -Any object which is stationary in one position.	C	P7	Simple machines	2

	-Dynamic friction -Viscosity friction Properties of friction -Friction helps when walking. -Friction enables bicycles and vehicles to stop when breaks are applied. -Friction helps when sharpening cutting tools.				
	The diagram below shows a non-flowering plant. Use it to answer questions 5, 6 and 7. 	A	P6	Classificati on of plants	2
5	Name the part labelled X. Spore cases	K			
6	In which one way are parts marked X helpful in multiplication of non-flowering plants? They produce and release spores, which grow into new plants.	A			
7	State the function of part labelled N on the diagram. It holds the spore case. Related content Non-flowering plants are plants that do not bear flowers. A flow chart showing the classification of non-flowering plants. <pre> graph TD A[Non- flowering plants] --> B[Spore bearing plants] A --> C[Coniferous/ seed bearing plants] B --> D[Fern] B --> E[Moss] B --> F[Liverworts] C --> G[Cypress] C --> H[Podo] C --> I[Pine] </pre>	C			

	Spore bearing plants are non-flowering plants that reproduce by means of conifers. Importance of conifers -They produce soft wood for timber. -They are source of income to people. -They are used as wind breaks. -They provide shade to people. -They are used for making match boxes, papers, match sticks, book covers and wooden boards.				
8	In which one way are joints able to reduce friction? -They have synovial fluid that lubricates bones. -They have cartilage that cushions bones. -They have ligaments that holds bones in one place and guide them properly. -Bones fit together that help easy movement. Related content Functions of the human skeleton -It protects the delicate body organs. -Bone marrow help in the production of blood cells. -It gives the body shape. -It helps in body movement. A skeleton is a structure that supports the body of an organism. Types of skeleton Exo skeleton: Is a type of skeleton found outside the body of an animals. Hydrostatic skeleton: Is the type of skeleton posed by an animal whose body with fluids under pressure. Endo skeleton: Is the type of skeleton found inside the body of an animal.	A	p	Skeletal muscular system	1
9	Name the type of soil which has a soil aeration rate. Sand soil. Related content Soil is the layer that covers the earth's surface.	K	P5	Soil	2

	Types of soil -Clay soil -Loam soil -Sand soil Sand soil Characteristics of sand soil -It has high water drainage. -It has large inter-particle spaces. Ways how sand soil is useful to people -It is used for making glasses. -It is used for making sand papers. -It is used for filtering water. -It is used for building houses.				
	The diagram below shows transformation of mechanical energy. Use it to answer questions 10, 11 and 12. 		P5	Heat energy	2
10	Name the type of mechanical energy possessed by the stone at point T. Kinetic energy.	K			
11	State the reason to support your answer in 10 above. The stone is rolling. / The stone is in motion.	C			
12	State any one way in which heat energy help to preserve food. -It is used in sun drying food. -It is used in smoking fish. -It is used in pasteurization.	A			

	-It is used in boiling milk. -It is used in smoking meat. Related content Forms of energy -Heat energy -Sound energy -Electrical energy -Light energy -Magnetic energy Heat energy is the form of energy that flows from one place to another due to change in temperature. Qualities of a good rabbit hutch -It should be raised from the ground -It should always be kept clean -It should be kept dry to minimize breeding of germs -It should be able to get enough air inside Reasons why heat is called energy -It can transform into other forms of energy. -It has the ability to do work. Reasons why heat is not regarded as matter -It does not have molecules. -It does not have volume and mass. Ways how important heat energy is in our daily life -It helps to dry harvested food. -It aids in seed germination. -It helps in cooking food. -It is used in boiling milk. -It is used in sun drying food. -It is used in sterilizing milk.				
13	Mention the activity done to remove chaff from sorghum grains at home. Winnowing Related content Winnowing is the act of separating seeds or grains from chaffs or husks.	K	P6	Accidents and First aid	3

	Preserving crops: Is the way of keeping crops safe for a long time without going bad. Importance of sun-drying harvested crops -It prevents crops from rotting when stored. -It prevents crops from germinating from the store. -It prevents crops from being attacked by germs. -It enables good processing, milling and grinding. Importance of preserving crops -It ensures food security. -It prevents crops from developing new shoots when stored. -It makes it easy to transport crops. -It adds value to crops in case of selling. Threshing / Shelling This is the act of separating seeds or grains from their husks or pods. Methods of threshing -Hand threshing -Machine threshing Examples of crops which are threshed -Maize -Beans -Millet -Peas -Rice -Soya beans				
14	Mention any one way in which excretion is important in human beings? -It prevents the damage of the body organs like the kidney. -It prevents blood poisoning. -It stabilizes the internal body temperature. Related content Excretion is the removal of metabolic waste products from the body. Ways in which the skin regulates the human body temperature during cold days / weather -Through shivering. -Through vasoconstriction.	C	P7	Excretory system	2

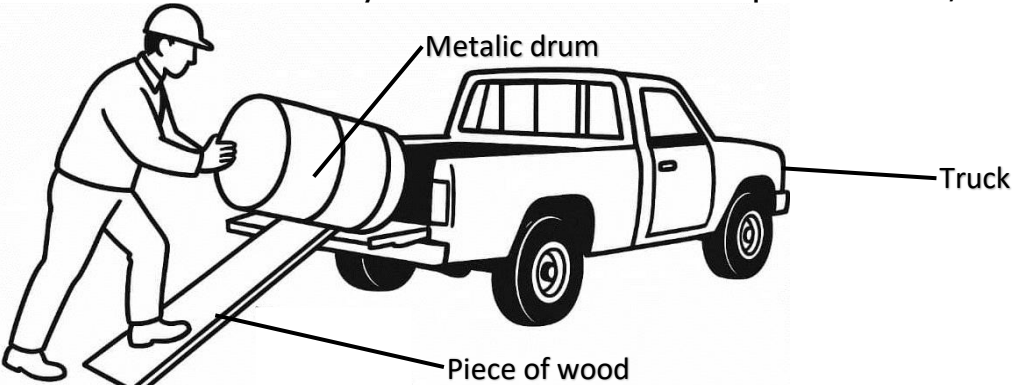
	-Through producing goose pimples. Functions of the human skin -The skin is used for feeling. -The skin helps to make vitamin A. -The skin protects the body against germ invasion.				
15	Write the reason why molecules in solids vibrate faster than those in liquids and gases Molecules in solids are closely packed together. Related content Sound is a form of energy produced by vibration of an object. Reasons why sound is called a form of energy -It has the ability to do work. -It can be transformed into other forms of energy. Ways in which sound is imported -For communication. -For income when sold. -For entertainment. -For locating objects. -For evidence in courts of law.	C	P6	Sound energy	2
16	Mention one way how girls and women can replace the lost blood during menstruation period. Feeding on food rich in iron. Related content Biological changes are changes that take place in organisms but do not involve chemical reaction. Examples of biological changes -Moulting -Growth -Fruiting -Ripening of fruit -Flowering -Shedding of leaves in plants -Fertilization -Germination Reasons why chameleon change colours -For protection.	A	P6	Types of changes in the environment	3

	-To get its prey.				
17	Give the meaning of the term flushing. Flushing up is the provision of highly nutritious feeds to a female animal to facilitate ovulation. Related content Advantages of flushing up animals It increases chances of ovulation in female animals. -It increases multiple birth in female animals. Heat period Heat period is the time when a female animal is ready for mating with a male animal. An ewe is a female sheep while a ram is a male sheep A nanny is a female goat, a Billy is a male goat.	K	P6	Keeping goats, sheep and pigs	3
18	Give the main reason why the hair on the skin stands up right during cold days. To trap escaping heat. Related content Reasons why there is less or no sweating on cold days Excess water is lost in through urination. Practices that people do to regulate body temperature on cold days -Taking hot drinks. -Sitting near fire. -Putting on thick clothes. -Doing physical exercises Activities that people do to regulate body temperature on hot days -Using umbrellas. -Wearing light clothes. -Turning on the electric fan. -Moving under the shade. -Taking cold drinks. -Fanning using a piece of cloth.	C	P7	The excretory system	2
19	Apart from dredging sources, mention any one other way of controlling silting in water bodies. -Leaving river banks and lake shores un cultivated. -Avoid grazing animals near river banks and lake shores.	A	P6	Science at home and in the environment	3

	-Maintaining vegetation near river banks and lake shores. Related content Reasons why clothes should be cleaned regularly -To prevent the spread of skin diseases. -To prevent bad body smell. -To prevent the breeding of body lice. Human activities that lead to silting in water bodies -Cultivating along river banks. -Dam construction. -Grazing animals near water bodies. -Deforestation near water bodies. -Road building near water bodies. -Sand mining in and near lakes. Silting is the deposition of eroded soil particles into water bodies.				
20	Name the item which is used for removing excess wax from the ear. Cotton swabs. Related content Activities that school children can do to keep their bodies clean -Regular bathing. -Regular washing of clothes. -Regular washing of hands with clean water. -Regular brushing of teeth using tooth paste. Reasons why school children should keep their bodies clean -To remove dirt from the body. -To remove bad smell from the body. -To kill parasites and vectors like lice. -To keep health. -To prevent diseases like scabies and ringworms. Things that should be kept clean -Bedding -Toothbrush -Clothing -Sandals -Shoes	K	P4	Personal hygiene	1
	The diagram below shows different sites where different types of vaccines administered. Use it to answer questions 21, 22 and 23.		P5	Immunization	1

					
21	Name the vaccine administered at part marked X. Polio vaccine	K			
22	Mention the reason why vaccines administered at site marked Y given at birth. Babies are born with low immunity.	C			
23	Give any one way in which parents can control childhood immunization diseases among their children. -Taking children for immunization. -Isolating the infected children. -Giving children boiled water for drinking. -Sterilizing sharp medical objects to prevent tetanus. Related content Note: The vaccine marked Y is called BCG vaccine that's why our reason in (23) stands to be correct. For to why it's administered at birth. Reasons as to why are administered on different body sites -To prevent side effects on the person. -To prevent mixing of vaccines. -To easily identify the given vaccine. -To allow effective absorption of vaccines into the body. Reasons why DPT is called a triple vaccine It is given to prevent three immunisable diseases. Reasons why measles is given at nine months	A			

	They baby is born with strong immunity against measles that weakens later at the age of nine months.																
24	Mention the part of the skeleton that give protection to the tongue. Mandibles Related content Importance of human skeleton to the circulatory system -It protects the heart. -It helps in production of body cells. A table showing the parts of skeleton and the organs they protect <table><tr><td>Organs protect parts</td><td>Parts of a human skeleton</td></tr><tr><td>Tongue</td><td>Mandibles</td></tr><tr><td>Spinal cord</td><td>Backbone / spine/ vertebral column</td></tr><tr><td>The brain</td><td>Skull / cranium</td></tr><tr><td>Bladder, uterus, oviducts and ovaries</td><td>Pelvis / girdle</td></tr><tr><td>Eyes</td><td>Eye socket / Orbit</td></tr></table>	Organs protect parts	Parts of a human skeleton	Tongue	Mandibles	Spinal cord	Backbone / spine/ vertebral column	The brain	Skull / cranium	Bladder, uterus, oviducts and ovaries	Pelvis / girdle	Eyes	Eye socket / Orbit	K	P7	The muscular skeletal system	1
Organs protect parts	Parts of a human skeleton																
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Bladder, uterus, oviducts and ovaries	Pelvis / girdle																
Eyes	Eye socket / Orbit																
25	State any one reason why you would advise poultry farmers dealing in layers to add calcium to their layer's mash. -To maintain the quality of egg shell. -To promote egg production. -To prepare layers for laying eggs. Related content Reasons why layer's mash should be mixed with small stones Small stones help in crushing food in the gizzard. Reasons why vegetables are hanged in poultry house -They are source of vitamins to birds. -They enable birds to do physical exercise as they jump to eat the leaves. Reasons why poultry should be feed properly -To enable birds grow healthy. -To increase egg production. -To increase meat production.	C	P5	Keeping poultry and bees	1												

26	Give any one reason why breast feeding is recommended for at least two years. -Breast feeding improves the health of the mother. -It delays the next pregnancy. -It delays monthly ovulation. -It strengthens the immunity of the baby.	C			
	The diagram below shows a map using a simple machine to load a metallic drum on a truck. Study and use it to answer questions 27, 28 and 29. 		P7	Simple machines and friction	2
27	Identify the type of a simple machine the man is using to load a metallic tank on a track. Inclined plane	K			
28	In which one way are inclined planes important? -Inclined planes help to carry heavy equipments more easily to high places like hills when placing telecommunication masts. -They reduce the effort needed to lift the tools during installation of masts up hill. -They help reducing risks of injuries by making work less hard during installation of masts.	C			
29	Write one way how the man above can reduce the effort needed to get his tank on the track. -Reducing the angle of inclination. -Making the slope longer and gentle.	A			

	Related content An inclined machine is a simple machine with a flat surface raised at an angle. Examples of inclined planes -Plank -Ramp -Winding road -Stair case -Door steps -Leaning ladders Ways how wedges can be important in our daily life -For splitting wood using actions. -For cutting trees using a panga or axe. -For sewing clothes using a needle. -For peeling food using a knife.				
30	State the reason why you would advise Mr. Kabaya to transplant his tomato seedlings in the evening time. -To prevent his seedling from wilting. -The low rate of transpiration in the evening. Related content Transplanting is the transfer of seedlings from a nursery bed to the main garden. The correct garden tool for transplanting seedlings is called a trowel. A nursery bed is a small garden prepared for raising seedlings before transplanting. Reasons why farmers plant some seeds in a nursery bed -It enables them to take good care for seedlings. -It allows a farmer to select healthy seedlings. -It protects seedlings from harsh weather condition. -It prevents wastage of seeds. Activities done when preparing a nursery bed -Site selection -Clearing land -Digging -Harrowing -Adding fertilizers Materials needed when preparing a nursery bed -Hoe -Slasher	C	p	Growing crops	1

	-Seeds -Poles -Water -Manure				
31	Give the meaning of the term narotic drugs Narotic drugs are drugs that cause addition when used for a long time. Related content Examples of Narotic drugs -Alcohol -Cocaine -Marijuana -Caffeine -Opium -Miraa (khat) Drug abuse is the use of drugs in a way that is harmful to one's health. Drug dependence is a condition in which one is addicted to drugs. Importance of labels on medical drugs -They inform a patient the name of the drug. -They inform the patients the safety precaution of the drug.	K	P6	Alcohol, smoking and drugs	1
32	Write any one way how maternal and child health is important to the community. -It reduces mortality rate. -It ensures health future generation. -It boosts economic production. -It lowers health costs. -It improves education outcomes due to health assurance of children who attend schools. -It ensures health of expectant mothers. Related content Activities done under maternal and child health -Immunization. -Family planning matters. -Guidance and counselling on health. -Nutritional education. -Antenatal care service.	C	P5	Primary Health Care	3

	Importance of health education to the community. -It teaches people ways of promoting sanitation. -It makes people aware of certain disease. -It sensitizes people on how to improve personal hygiene.				
33	Mention one way how a lightning conductor protect tall buildings from lightning strikes. It traps static charges and direct safety to the ground. Related content Lightning is the flash of light produced when charged cloud meet. Causes of lightning When a positive charged cloud meets with a negatively charged clouds. Dangers/ effects of lightning -Lightning strikes people and other animals. -Lightning sets fire on plants, forests and buildings. -Lightning destroys people's property. -Lightning damages electric appliance. Ways of preventing the dangers caused by lightning -A void taking shelter under trees during a thunder storm. -Wearing rubber shoes / sandals when walking in rain. -Avoid swimming in open water when it is raining. -Avoid standing in open places during thunder storm.	A	P7	Electricity and magnetism	1
34	Write any one way in which vectors spread diseases to humans. -Through contaminating food. -Through bite. -Through body contact. Related content Characteristics of disease vectors -They have hairy bodies. -Some vectors bite. -They have specialized feeding habits. -They breed in water, dirty place or dark corners.	C		Vectors and diseases	

	-Germs are able to survive in their bodies. Examples of common vectors -Black flies -Ticks -Fleas -House flies -Mosquitoes -Water snails -Cockroaches				
35	Kakembo had 1kg of stones and a ship of 2000kg that he put both of them on Lake Victoria. After few seconds stones sunk in water and the ship remained on top though it was heavier than stones. Study and answer 35 and 36. Write the reason why the ship heavier than a stone did not sink. A ship displaced the amount of water equal to its weight.	C	P5	Measurements	1
36	What term is used to describe the ship in the above experiment? Flotation Related content Facts about different objects Objects weigh less on the moon than on the Earth. Reason There is less gravity on the moon than on the Earth. Reason why it is easier to pass the wheelbarrow down than uphill. There is more gravity to support the movement of a wheelbarrow downhill than uphill. Sample calculations Express 4000g to Newtons 100g = 1N 4000g = ? Let's cross multiply as below 100 = N 4000g = ? 100g = 4000 100g 100 4000g = 40N				

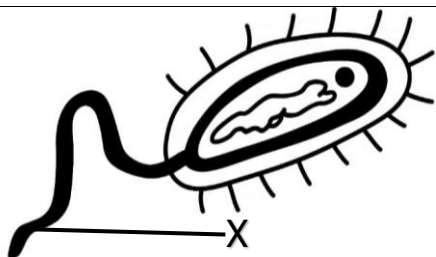
37	Mention any one biological characteristic used when grouping animals. -The mode of feeding. -The mode of reproduction. Related content Reasons for grouping / classification of animals -For easy identification. -For easy naming animals. -For easy understanding of animals. -For easy study of animals. Vertebrates Vertebrates are animals that have backbones Characteristics of vertebrates -They have back bones. -They undergo sexual reproduction.	C	P6	Classificati on of animals	1
	The diagram below shows a human body organ. Use it to answer questions 38 and 39.		P7	The excretory system	2
38	Name the part of the kidney marked N. Medulla	K			
39	Give the function of the part marked X. -It filters blood in the kidney to remove wastes. -It is where filtration of blood takes place. Related content Functions of the kidney -The kidney filters blood.	C			

	-The kidney balances the amount of water needed. -The kidney helps in the production of red blood cells. -The kidney produces renin which controls blood pressure. -The kidney removes Nitrogenous wastes from the body. Nitrogenous wastes in the body -Urea -Uric acid -Ammonia				
40	In which one way can mulching be disadvantageous to a crop farmer? -Mulches hide some crop pests like termites. -Mulches are fire hands that can lead to destruction of crops in case of fire. -Some mulches can grow into weeds. -Mulching is a tiresome work. Related content Soil erosion: Is the removal of top soil by its agents. Reject: The washing away of top soil by its agents because not all agents do the washing away of soil besides water. Agents of soil erosion -Water -Animal -Wind Dangers of soil erosion in our environment -It causes soil exhaustion. -It removes top fertile soils. -It leads to loss of humus. -Soil erosion destroys plants. -Soil erosion blocks drainage channels. Mulching is the covering of top soil with plant materials.	C	P5	Soil	2

SECTION B (40 MARKS)

41	(a) Kabaya was boiling tea in an electric kettle, he suddenly got burnt when he was trying to remove the cover. Name the substance that burnt him. Steam.	C	P6	Accidents and first aid	3
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	(b) Write the reason why you would not advise Kabaya to put cow dung or soil on the injured part. Cow dung and soil attract germs to the wound. (c) The nurse decided to dip Kabaya's burnt hand in clean cold water. State any two reasons for the nurse's action. -To cool temperature around the injured part. -To relieve pain. -To reduce further damage on the skin tissues. -To minimize the formation of blisters. Related content Prevention of burns and scalds -Use insulator to carry hot objects. -Put out all fire after use. -Avoid leaving burning candles in rooms where there are clothes. -Keep all flammable liquids away from fire. Fever is a condition in which the body temperature rises beyond the normal Causes of fever -Diseases like malaria. -Food poisoning. -Putting on tight clothes. Main sign of fever. Excessive sweating. First aid for fever Tepid sponging the casualty.				
42	The diagram below shows the structure of a bacterium. Use it to answer questions that follow.	A	P5	Bacteria and fungi	2



(a) Name the part of the bacterium marked X.

Flagellum

(b) Give the function of the part marked X in the diagram above.

It is used for movement / flagellum is used for movement.

(c) Mention any two condition that favour the breeding of bacteria.

-Presence of moisture.

-Presence of food.

-Presence of warmth.

-Presence of Air.

Related content

Bacteria

Are single-celled microscopic organisms without a nucleus.

Reasons why bacteria are called microscopic organisms

They can only be seen using a microscope.

Characteristics of bacteria

-They are single-celled.

-They have no nucleus.

-They have no uniform shape and size.

-They feed parasitically or saprophytically.

-They produce by binary fusion.

Places where bacteria are found

-In air

-Water

-Soil

-Animals bodies

-Rubbish

-Latrines

43

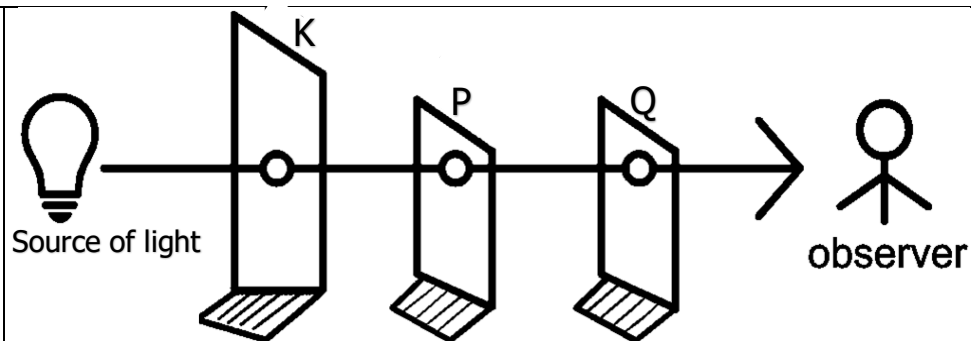
The list below shows musical instrument. Use them to answer the questions that follow.

(a) Name that group of musical instruments under which the above can be put.

C

	Wind musical instruments. (b) Mention the reason to support your answer above in (a). They all produce sound by vibration of air molecules brown in them. (c) Give any two methods used to produce sound in percussion instruments. -Hitting -Striking -Beating -Shaking Related content Sound is a form of energy produced by vibration of an object. Ways in which sound is important -For communication. -For locating objects. -For education purpose through songs. -For evidence in coats of law. -For an entertainment Reasons why some animals make sound -To express their feelings. -Due to pain inflicted on them. -To scare away their enemies. -To meet their mates. Groups of musical instruments Percussion instruments These are musical devices that can produce sound by vibration of their surface when hit or shaken. Examples of percussion instruments -Drums -Rattles -Hand drum -Shakers -Castanets -Xylophone -Thumb pianos -Cymbals -Brass band -Bell -Maracels				
44	Match the vectors in list A and the diseases they spread in list B correctly.	A	P5	Occupation in our	2

	-They have long powerful hind legs to enable them jump from one place to another. -They undergo complete metamorphosis.				
46	(a) Mention the deficiency disease which is caused due to lack of proteins in the body. Kwashiorkor (b) Write the reason why the skin of a person suffering from the above-named diseases takes long to come to its normal position. The whole body is always swollen / The whole body is swollen. (c) Give any two examples of plant proteins you know. -Ground nuts -Cow peas -Beans -Soya beans Related content Food is any thing taken into the body to nourish it. Food is a substance that adds nutritional value in the body. Ways how food is important is the body -Food provides heat in the body. -Food repairs damaged tissues. -Food build the body. -Food promotes growth. -Food keeps the body. Classes of food Food is classified according to chemical composition and nutrient value. Classes of food -Carbohydrates -Proteins -Vitamins -Mineral salts	C	P4	Our food	2
47	The diagram below is an experiment carried out at Muyuwi primary school by p7 candidates during an evening prep lesson about light. Use it to answer questions that follow.	A	P7	Light energy	2



(a) Name the principle of light described by the above experiment.

Light travels in a straight line.

(b) Write the role played by the bulb in the above experiments.

To provide light so that we can observe how light moves from a straight line through holes.

(c) What would happen if cardboard "p" is displaced from its straight line?

Light will not be observed or seen at the extreme end by the observer.

(d) State the reason to support your answer in (c) above.

Light would have been blocked by the displaced cardboard.

48

(a) Mention any two ways how Mr. Kato can improve his local breeds of cattle on Binyansi farm.

- Cross breeding with exotic breeds / cross breeding.
- Providing better feeding.
- Controlling diseases / Regular vaccination.

(b) Write any two examples of local breeds of cattle in Uganda.

- Boran cattle -Zebu cattle
- Ankole cattle -Sanga cattle

Related content

Types of cattle

- Dairy cattle -Beef cattle

-Dual purpose cattle

Characteristics of diary cattle

- They have large udder.

A

P6

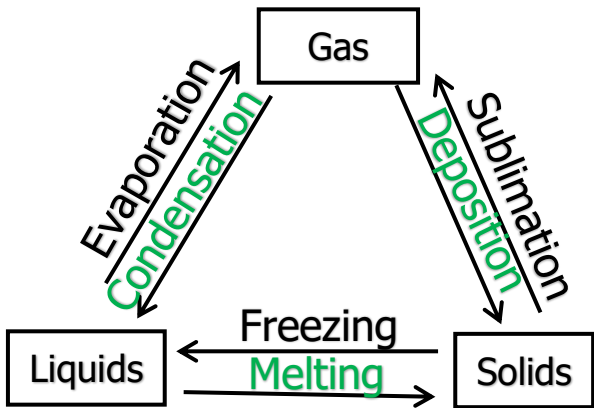
Keeping cattle

2

	-They have large hind quarters. -They have triangular body shape. Examples of dairy cattle -Friesian -Jersey -Swiss -Guernsey -Brown -Jamaican Hope -Ayrshire				
49	(a) State any two ways how people use soil as a resource. -Sand soil is used for building houses. -Loam soil is used for growing crops. -Sand soil is used for making glasses. -Clay soil is used for making ceramics like clay tiles. (b) In which two ways is dumping polyethene bags and plastic can be dangerous to the soil? -They prevent rain water from entering the soil. -They block soil aeration. -They kill soil organisms. Related content Ways of conserving soil as a resource -Planting trees and grass to control soil erosion. -Limiting the use of artificial fertilizers. -Avoid dumping polyethene bags and plastics in the soil. Reasons why alloys are made -To lower the melting point of metals. -To make metals resistant to rusting. -To make metals durable / long lasting.	C	P6	Resources in the environment	2
50	(a) Give the meaning of the term respiration. Respiration is the oxidation of glucose in the body cells to produce energy. (b) Name the structures in the nose which trap dust, filter air and clean it before it reaches the lungs. Cilia	A	P6	Respiratory system	2

	(c) Write the reason why you would discourage some one to breathe through the mouth instead of a nose. The mouth lacks cilia to trap dust and filter air. (d) Give any one adaptation of the lungs to its function of breathing. -They are elastic to change their size during breathing. -They had a network of blood capillaries which supply oxygen. -They are soft spongy for easy contraction and relaxation during gaseous exchange. -They have thin moist walls for easy diffusion of gases.				
51	(a) Mention any two emotional changes in both girls and boys during adolescent stage. -They move in peer groups. -They develop desire for freedom. -Adolescent become interested in people of opposite sex. -They become confused about body changes. -They rebel against rules of their parents and teachers. (b) State any two examples of a sexual reproduction. -Binary fission -Sporulation -Vegetative propagation Related content Puberty is the period of sexual maturity of a person. Primary sex changes or characteristics are changes that occur to the sexual organs. Note: Sex organs in male are testes and female are ovaries Primary sex characteristics in adolescent girls -On set of ovulations. -Development of ovaries. -Growth and maturation of the uterus. -Development of the vagina. Secondary sex characteristics of girls in adolescence stage -Breast development. -Widening of hips. -Growth of pubic and under arm hair. -Increase in body fat, particularly around the hips, thighs and breasts.	C	P6	Reproduction	3

	Primary sex changes that occur in both boys and girls -Production of garments. -Development of reproductive organs.				
52	(a) In which one way are monocotyledonous and dicotyledonous seeds differ in terms of food storage? Monocotyledonous seeds store food in endosperm while dicotyledonous seeds store their food in the cotyledon. (b) Write any two examples of monocotyledonous seeds. -Sorghum -Maize -Millet -Wheat -Barley -Rice (c) Apart from storing food, mention any other functions of an endosperm to a maize grain. It supplies food to the embryo during germination.	C	P4	Plant life	1
53	(a) Mention any two diseases that affect red blood cells. -Malaria -Sickle cells -Anaemia -Sleeping sickness (b) State the main function of red blood cells in the body. -Red blood cells carry blood around the body. Reject: Red blood cells transport blood around the body. Reason Blood is not transported by red blood cells but vessels. (c) In which one way are white blood cells adapted to their function fighting against germs? -They have a nucleus which produce antibodies. -They have irregular shape to easily engulf and capture germs. Related content Blood is a red fluid that continuously flows in the body. Types of blood - Oxygenated blood -Deoxygenated blood	A	P6	Circulatory system	1

	Components of blood -Blood plasma -White blood cells -Red blood cells -Blood platelets Note: White blood cells do not fight against diseases but rather against germs.				
54	(a) Write any one similarity between liquids and gaseous state of matter. -Both allow heat transfer by convection. -Both have freely moving molecules. -Both have a lot of energy. (b) Study and complete the chain below.  a Melting b Condensation c Deposition	C	P5	Heat energy	2
55	(a) Give the reason why water is added in the biogas digester. To speed up decomposition in the bio digester. (b) Write any two conditions which are necessary for rusting to take place. -Presence of oxygen -Presence of water (c) In which one way does a biogas help to conserve the environment? -It reduces deforestation.	C			

	-It does not pollute the environment. -Sludges from a biogas can be used as manure to support plant growth. -It is an alternative to wood fuel. Related content Reasons why a biogas should be built far from the kitchen -To prevent explosion of biogas. -To prevent death of bacteria due to heat. Reason why a biogas should be built above water table To prevent slurry from contaminating underground. Advantages of using a biogas -It does not produce smoke that pollutes the environment. -It reduces the rate of deforestation for wood fuel production. -Materials used to produce biogas are readily available. Disadvantages of using biogas -It contains some impurities. -It is produced on a small scale. Equipments that use biogas -Biogas cookers -Biogas lamps -Biogas incubators WATCH OUT FOR THE DREAM CHAMPION MOCKS IN JULY				
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Note, we have acknowledged the challenge of our learners trying to cope up with new lower secondary curriculum and so we have shifted our setting to face the new challenge which calls for learners' personal reasoning and then teachers always to conduct learner's centered lessons. This paper constitutes 25% of the current class and 75% the previous classes to enable teachers and learners to preview the previous topics in order and limit knowledge gaps and hence produce fruitful results.
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