

RUBANDA DISTRICT SCIENCE

GUIDE NOCK 2024

1. Sand soil.
2. Lack of enough energy / Rough and dry skin / Feeling cold all the time.
3. To build stronger immunity against polio virus which is very resistant to vaccines / polio virus is very resistant to vaccines.
4. Taking ARVs / By use of C-section delivery / Good nutrition.
5. Some of the oxygen is used in the body for respiration.
6. Leads to tooth decay / Gum diseases / Brings bad breath / Gives teeth bad appearance.
7. Using a magnet to move the metal index.
8. Less effort is used to overcome the load than when using a fixed pulley.
9. Shoot system.
10. Bone marrow.
11. It is where blood cells are made / stores fats / It is where white blood cells are made.
12. Clouds cause accidents during air transport / produce thunderstorms / Cause lightning.

13. Direction of the flow of energy.
14. Keeping or amphibians in ponds to feed on mosquito larvae
15. Decision making / self esteem / peer resistance /
Cope with stress / self awareness / problem solving /
Critical thinking
16. Using toilet papers / tissue papers to clean
oneself / Avoid use of hard materials to clean
oneself
17. Kimsing.
18. Size of the object / Upthrust or buoyancy /
Nature of the object / Force of gravity or gravity or
gravitational force
19. Planting trees in the farm / Constructing a shell /
Housing cattle / providing shade
20. They have sharp claws to dig out tubers /
they have sharp incisors to bite tubers / some
have fingers for uprooting tubers.
21. Makes swimming pools appear shallower leading
to accidents / Causes mirage on high ways leading
to accidents / May lead to drowning / makes fishing
using a spear difficult.
22. Moulting / Ecdysis.
23. Through interviews / Questionnaires / observations
24. Marsupials / Pouched mammals.

25. Controlled mining / use of alternative resources / using them sparingly / Recycling / forming alloys.
26. Picking up tiny things / hair from the wound / Removing bee stings from the casualty's body / Used by doctors to pick small things or injections or pins or razor blade when administering first aid / Holding cotton wool when cleaning the wound.
27. Alcohol / Medicine or drugs / Glucose or simple sugars
28. Helps in emulsification of fats / Breaks down fats into fat droplets.
29. Feeding on food rich in iron / Through blood transfusion / Taking plenty of fruit juice / Taking iron tablets / Taking enough water.
30. Cutting off leaves from suckers during planting / Transplanting seedlings in the evening / Constructing sheds on a nursery bed.
31. Taking hot drinks / Doing body physical exercises / Sitting near fire / Wearing thick clothes.
32. Lengthens the peak of lactation / Increases the production of milk rich in colostrum / Prevents low birth weight / Promotes health growth of the foetus / Prepares and strengthens a pregnant goat to give birth.
33. High temperature / Low temperature / Presence of chemicals.

34. Should be clean and dry / Raised above the ground / Well ventilated / Cemented floor / Strong enough to protect rabbits from bad weather / Predators.
35. Telling the candidate to replace dry cells with new ones / New bulb.
36. Putting rat guards on a granary.
37. Changing the tension of the string / Tightening or loosening the string / Fanning / Tuning the strings.
38. For stroking / bowing / Rubbing against the string to produce sound.
39. Used as manure in crop gardens / Used in production of biogas.
40. Through role plays / Radio talk shows / Television shows / Songs / Rhymes / Acting health related plays / Recite poems.

SECTION B

- 41 (a) Through eating / contaminated food / poisonous food / Through bites from poisonous animals / Through injections / inhaling contaminated air / Swallowing / orally.
- b, Rapid breathing / Feeling thirsty / Fever / Excessive sweating / Loss of body balance / Vomiting / Loss of senses / Mental confusion / Coma / Nausea.
- (c) Giving the victim raw eggs with tomatoes / Putting fingers into the victim's throat / Giving the victim drinking water with soap.

42. (a) Crustaceans.

(b) Both a cray fish and arachnids have two main body parts / Both have cephalothorax and abdomen.

(c) Crab / Prawn / Lobster / sand hopper / wood lice / barnacle / water flea / sand flea / Krill / shrimps / cyclops.

(d) They are eaten as food / used as baits in fishing / Source of income when sold.

43. (a) R — Oxygenated blood.

S — Deoxygenated blood.

(b) Cleans blood / Purifies blood / Removes wastes from blood / Filters blood / Removes urea from blood.

(c) Having regular physical exercises / Avoid taking alot of alcohol / salt / sugar / maintaining good hygiene / Eating a balanced diet / Avoid holding urine for a long time.

44. (a) Production of gametes or reproductive cells / Enlargement of sex organs / Development of gonads.

(b) They develop anti-social behaviours / Conflicts with elders / Sex conflicts amongst themselves / Bad body smell / Increases the risks of unwanted pregnancies / Conflicts with culture.

(c) Washing genital parts with clean water / wearing clean ~~and~~ nickers / underwears / Pants / washing reproductive parts / Shaving hair or pubic hair / abstaining

from sex / Avoid sharing towels, ~~ten~~ nickers, pants /
feeding on a balanced diet.

45. Steps:

I. Prepare the source of heat using the match stick and firewood.

II. Put the soil sample in the saucepan

III. Cover the saucepan with the soil sample and put on the source of heat prepared.

IV. Water droplets will form on the lid showing the presence of water in the soil.

46. (a) Sun

(i) Absorbs radiant heat from the sun / Traps sunlight

(ii) Stores electricity / Produces electricity.

(c) Conserves the environment by reducing the cutting of trees for wood fuel / It does not produce smoke which would pollute the environment.

47. (a) Rickets

(b) Eating food rich in vitamin D / Eating food rich in Calcium / Phosphorus / Sun bathing in the morning hours.

(c) Kwashiorkor / Beriberi / Marasmus / Scurvy / Pellagra / anaemia / Goitre / Night blindness

48. (a) First class lever

(b) On the diagram - put two arrows facing each other on the part we hold.

(c) Fulcrum / Pivot.

(d) Oiling the fulcrum / Sharpening the edges / lubricating.

49 (a) (i) To prevent milk contamination / Avoid dirt /

Avoid germs in milk.

(ii) Restricts movement during milking / prevents the cow from kicking the milk container.

(b) Washing the udder with lukewarm water / allowing the calf to suckle teats before milking /

Provide feeds / Soothing the cow.

(c) By cross breeding / Proper feeding.

50. (a) ~~Let~~ Clean Latrine

(b) Soap / clean water.

(c) They lack safe drinking water / They do not have tippy taps to provide water for washing hands.

51 (a) (i) M - Pollination / Self pollination

(ii) N - Fertilization

(b) It is broad / It is sticky / Broad and sticky.

(c) Improves on yields / Allows high yields in harvests through fertilization / Allows fertilization to take place to improve on yields.

52. (i) Bites from rat fleas.

(ii) Contamination of food by cockroach.

(iii) Bites from ticks.

(iv) Burying into the skin by ichmities.

53. Correct order

Steps:

i. Burn banana peelings into ash.

ii. Pour water into the banana peelings ash and put in a container.

iii. Filter the mixture to separate residues from the solution.

iv. Evaporate the solution to dryness and observe salt crystals on the bottom of the container.

54. (i) A - A freely suspended bar magnet rests in the North - South direction.

(ii) B - Magnetism can pass through non-magnetic materials.

(b) (i) A: Used in magnetic compasses to show direction.

(ii) B: Used to separate magnetic materials from non magnetic materials / Helps meteorologists to reset Six's thermometer / Helps oculists to remove iron bits from the eyes.

55. (a) Long sightedness / Hypermetropia

(b) Too thin eye lens / Too small eyeball.

(c) Wearing spectacles with converging lens / Convex lens.

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END