

THE SPARK PUBLISHERS
SCIENCE DOCTOR
Tel 0775719841/ 0755322865

PREFACE

The science doctor is prepared to correct the common mistakes done as far as answering science questions is concerned

This book can be used by learners from primary three to primary seven. The language used in this book is simple to be understood by learners at the levels mentioned above.

Great care has been taken to make this book as comprehensive as possible, but at the same time to keep it within the scope of targeted users.

The author welcomes remarks, comments and suggestions from science teachers and the general public.

Together we can make science passable and enjoyable by learners

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ABOUT THE AUTHOR

The author is a teacher of science with an experience of eighty years teaching primary science.

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DEDICATION

I dedicate this piece of work to my grandmother Mrs. Anamaria Bagowabo for her tremendous efforts to ensure that I get education. May the Almighty God bless her abundantly.

LET'S PASS SCIENCE

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1. What is germination?

Correct response.

Germination is the growing of the seed embryo into a seedling.

Wrong response.

Germination is the growing of a seed into a seedling.

Note: During germination, it is the plumule and the radical which develop but not the whole seed.

2. Give one reason why we boil water for drinking.

Correct response.

To kill germs.

Wrong response.

- To avoid germs.
- To prevent diseases.

NOTE: The heat involved in boiling water denatures germs hence killing them.

Germs cannot be avoided because we cannot avoid what we can't see.

3. What are biological changes?

Biological changes are changes which take place in the life of living things.

Wrong response.

Biological changes are changes which take place in living things.

Note: Biological changes continue to occur in the life of living things.

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4. Where does conception take place in the woman's reproductive system?

Correct response.

In the oviduct.

Wrong response.

In the uterus.

Note: Conception occurs immediately after fertilization, that's why it occurs in the oviduct.

5. State the importance of suckers to a tapeworm.

Correct response

They attach the tapeworm to the walls of small intestines

Wrong response.

Suckers absorb digested food.

Note: Tapeworms do not absorb digested food using suckers. They feed by absorbing digested food through the surface of their skin by diffusion

6. What is soil erosion?

Soil erosion is the removal of topsoil by its agents.

Wrong response.

Soil erosion is the washing away of topsoil; from one place to another by its agents.

Note: The word washing away is not scientific.

7. What is a magnet?

Correct response.

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Amagnetis a substance which has the ability to attract other magnetic materials.

Or

Amagnetis a substance which has the ability to pull or push other magnetic materials.

Wrong response.

Amagnetis a piece of metal which has the ability to attract other magnetic substances.

Note: It is wrong to define a magnet as a piece of metal because lodestone and the earth are not metallic.

8. How do legumes improve soil fertility and add nitrogen to the soil.

Correct response

Legumes add nitrogen to the soil.

Wrong response.

Legumes add nutrients to the soil.

Note: Legumes add nitrogen to the soil which is converted into nitrate to improve soil fertility.

9. What causes pellagra?

Correct response.

Lack of vitamin B₃ in one's

Wrong response.

Lack of vitamin B₂ in one's diet.

Note: Vitamin B₂ deficiency does not cause pellagra. It causes riboflavin, swollen throat, blurred vision and depression.

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10. State the use of a switch in an electric circuit

Correct response.

Switch completes or breaks a circuit at one's will.

Wrong response.

Switch completes and breaks the circuit at one's will.

Note: Using and means that the switch completes and breaks the circuit at once.

11. How do tapeworms obtain their food?

Correct response.

By diffusion of digested food through their skins

Wrong response.

By absorbing digested food using suckers.

Note: Tapeworms do not use their suckers to absorb digested food. Digested food is absorbed through their skins by diffusion.

12. What type of change occurs when an egg breaks?

Correct response.

Physical change.

Wrong response.

Chemical change.

Note: When an egg breaks, non-new substance is formed. Also, the physical properties of an egg do not change

13. What is a weed?

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Correctresponse.

Aweedisanplantthatgrowswhereitisnotwanted.

Wrongresponse.

Aweedisanunwantedplantinthegarden.

Aweedisanunwantedplant

Note:Weedsnotonlygrowingarden.

Theyalsogrowinotherareaswhicharenogardens.

14. Nameonefungaldiseasethataffectstheskinandspreadduetopoorpersonal hygiene.

Ringworm.

Wrongresponse.

- Ringworms.
- Ringworm.
-

Note:Thewordisringwombutnotringwormsanditisoneword.

15. Statetwoadvantagesofkeepingrabbits.

Correctresponse.

- Rabbitsneedlessattention.
- Rabbitsarecheaptomanage.
- Rabbitsneedasmallpieceofland.

Wrongresponse.

- ✓ Wegetmeatfromrabbits.
- ✓ Wegetfurfromrabbits.
- ✓ Wegetdroppingsfromrabbits.
- ✓ Wegetskinfromrabbits.
- ✓ Wesellrabbitstogetmoney.

Note:Aquestionneedstheadvantageofkeepingrabbitsnottheimportanceofrabbit keeping

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16. How is cattle keeping important to a crop farmer?

A farmer gets droppings from cattle which are used in gardens as manure.

Wrong response.

A farmer gets manure from cattle.

Note: Manure from cattle is obtained after decomposition. So we get droppings from cattle but not manure.

17. How do hookworms enter the human body?

Correct response.

- Through penetration into bare feet.
- Through walking barefooted.

Wrong response.

- Through bare foot.
- Through walking barefeet.

Note: It is important to mark the correct spelling of the word **bare**. Also we don't walk barefeet but barefooted.

18. How do tapeworms enter the human body?

Correct response.

- Through eating undercooked meat, pork or fish.

Wrong response.

- Through eating half-cooked meat.
- Through eating half-cooked food.
- Through eating uncooked meat.

Note: we should not use the word half because it means part of something when divided into halves

19. What is soil capillarity?

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soil capillarity is the ability of the soil to allow water drain through it from bottom layer to top layers.

Wrong response.

Soil capillarity is the ability of the soil to hold water for long.

Note: Clay soil has the highest capillarity because it allows more water to drain through it easily from the bottom to the top.

Sand soil; has the lowest or poorest capillarity because it allows less water to drain through it easily from bottom to top.

20. Mention any three systems of keeping poultry.

Correct response.

- ✓ Fold system.
- ✓ Battery system.
- ✓ Free range system
- ✓ Deep litter system

Wrong responses.

- ✓ Battery cage system
- ✓ Fold pen system
- ✓ Zero grazing

Note: It is wrong to say fold pen system because fold is another word to mean pen. It is also wrong to say battery cage system because battery also means cage.

21. Give any two breeds of cattle kept in Uganda.

Correct responses.

- Friesian
- Jersey
- Hereford
- East African zebu
- etc.

Wrong responses.

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- Exoticbreeds
- Localbreeds
- Crossbreeds

Note:abreedmeansagroupofanimalshavingspecificcharacteristicsandoriginso.
Exoticbreeds,localbreedsandcrossbreedsdon'thavespecificcharacteristicsands
ameorigin

22. Statethefunctional differencebetweenarteriesandveins.

Correctresponses.

Arteriescarrybloodawayfromtheheartwhileveinscarrybloodtowardsthehe
art.

Wrongresponses.

Arteriescarryoxygenatedbloodwhileveinscarrydeoxygenatedblood

Note:Notallarteriescarryoxygenatedbloodiepulmonaryarterycarriesdeoxygena
tedbloodfromthehearttothelungswhileotherarteriescarryoxygenatedblood.

-

Notallveinscarrydeoxygenatedbloodiepulmonaryveincarriesoxygatedblood
fromthelungstotheheart.

23. Whatistheroleofadronebeeinthehive.

Correctresponses.

Adronebeemateswithaqueenbee.

Wrongresponses.

Adronebeematesandfertilizesaqueenbee.

Note:Fertilizationonlyoccurswhenanucleiofthespermandanovumunite/fu
se.

24. Statetheuseofaswitchinanelectriccircuit.

Correctresponses.

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A switch completes or breaks the circuit at one's will.

Wrong responses.

A switch completes and breaks the circuit at one's will.

Note: A switch does not complete or break the circuit at once. This is a reason why it is discouraged.

25. What is soil profile?

Soil profile is the arrangement of soil layers from top to bottom.

Wrong response.

Soil profile is the vertical arrangement of soil layers from top to bottom.

Note: The word vertical means from top to bottom. So having the two words in the answer is repetition.

26. Why breast milk is called a complete food?

Correct response.

Breast milk contains all food values.

Wrong response.

Breast milk contains almost all food values except iron.

Note: Iron lacking in breast milk is not a food value but a food element that undermines salts.

27. How can we prevent kwashiorkor in children?

By feeding children food rich in proteins.

Wrong response.

By feeding children proteins.

Note: We don't directly feed on proteins but on food stuffs rich in proteins.

28. Where in the body does respiration take place.

Correct response.

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In living body cells.

Wrong responses.

- In the lungs
- In the body cells.

Note: Lungs are just respiratory organs but not the specific area where respiration takes place.

29. Give any one importance of proteins in the body.

Correct response

- proteins repair worn out body tissues.

Wrong response.

Proteins repair worn out body cells.

Note: body cells do not wear out but are destroyed

30. Why does a stone sink in water.

Correct response

A stone is denser than water

Wrong response

It is more dense than water.

Note: The word more dense does not exist.

31. In which group of mammals are rabbits and hares.

Correct response.

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Lagomorphs

Wrong response.

Rodents/Gnawing mammals.

Note: Rabbits, hares belong to their own group but not under rodents

32. Why is it not advisable to put out petrol fire using water?

Correct response.

Petrol floats on water and fire continues burning.

Wrong response.

Water contains oxygen which supports burning.

Note: Oxygen in water is dissolved so it does not support burning.

33. What is a skeleton?

A skeleton is the supporting structure of the body of an organism.

Or

A skeleton is the structure that supports the body of an organism.

Or

A skeleton is the physical supporting structure of the body of an organism.

Wrong response.

A skeleton is the framework of bones in the body

Note: Not all living organisms have bones inside their bodies. Organisms like earthworms, insects, snails, slugs and squid have hydrostatic skeleton and insects have exoskeleton.

A framework of bones in the body refers to the human skeleton.

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34. Name the fungus sexually transmitted disease.

Correct response.

Candidiasis

Wrong response.

Candida.

Note: Candida is a group of fungi in the yeast family that causes candidiasis.

35. What are germs?

Germs are tiny living organisms which cause diseases.

Or

Germs are microscopic living organisms which cause diseases.

Wrong response.

Germs are small living organisms which cause diseases.

Note: Germs are tiny or microscopic because we cannot see them with our naked eyes.

- we can only see germs using a microscope.

36. What is reflection of light?

Correct response.

- ✓ Reflection is the bouncing of light rays.
- ✓ Wrong response
- ✓ Reflection is the bouncing back of light rays.

Note: Light does not bounce back to the direction where it came from. It bounces off the reflecting surface and takes another direction.

37. Give any three characteristics of living things.

Correct response.

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- ✓ Living things reproduce
- ✓ They excrete
- ✓ They respire
- ✓ They move

Wrong response.

- ✓ Living things die.
- ✓ Living things locomote.

Note: - Death is not a characteristic of living things because it ends life.

Locomotion means displacement from one place to another.
- not all living things move from one place to another e.g. Plants.

38. Identify the method of deworming cattle in which solid medicines are given to cattle.

Correct response.

Dosing

Wrong response.

Dozing

Note: Dozing with letter Z means to fall asleep for a while. So it is wrong to use it.

39. Why is transplanting of seedlings done in the evening?

Correct response.

To prevent wilting of seedlings due to excessive transpiration.

Wrong response.

To reduce the rate of transpiration.

Note: Wilting involves drying of a plant as a result of excessive loss of water than it absorbs. Wilting is caused by high rate of transpiration.

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40. Why do we cut our fingernails short?

Correct response.

To destroy the hiding places for germs.

Wrong response.

- To remove germs
- To prevent diseases
- To avoid eating germs.

41. Suggest the reason for cutting tall grass short in the compound.

Correct response.

To destroy the hiding places for vectors.

Wrong response.

- To prevent malaria.
- To destroy the hiding places for mosquitoes.

Note: Not only mosquitoes hide in tall grass. Other vectors like tsetse flies also hide there. It is wrong to mow grass to prevent mosquitoes.

42. Give any two blood cells.

- Correct response
- Red blood cells.
- White blood.
- Platelets.

Wrong response.

Plasma.

Note: Plasma is just a liquid part of blood.

No cells make up plasma.

- Therefore, plasma is only a component of blood but not a blood cell.

43. Give any one characteristic common to all dicotyledonous seeds.

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All dicotyledonous seeds have taproot system
All dicotyledonous seeds have two cotyledons

Wrong response.

- All dicotyledonous seeds undergo epigeal germination
All dicotyledonous seeds have parallel leaf venation
- Note Not all dicotyledonous seeds undergo epigeal germination

For example Peas, and some other dicotyledonous seeds but undergo hypogeal germination
Seeds do not have veins therefore no venation

44. What is a fracture?

Correct response.

A fracture is a broken or cracked bone in the body

Wrong response.

A fracture is a broken bone in the body

Not all bones break. Some crack while others bend e.g. greenstick fracture in young children

45. Mention any two types of poultry

Correct responses.

- ✓ Chicken
- ✓ Turkeys
- ✓ Ducks
- ✓ Pigeons
- ✓ Doves

etc

Wrong responses.

- ✓ Layers
- ✓ Broilers
- ✓ Dual purpose

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Note; Poultry refer to all kinds of domestic birds

Layers, broilers and dual purpose are not types of poultry but types of chicken
A type of chicken means a class of chicken kept for a specific purpose. So different types of chickens are kept for specific purposes eg,
Layers—For egg production
Broilers—For meat product
Dual-purpose—for both meat and egg production.

46. Why should married couples go together for gonorrhea/syphilis treatment?

Correct response.

To prevent re-infection.

Wrong response.

To prevent them from gonorrhea and syphilis.

47. Identify the biological method of controlling weeds.

Correct response.

Keeping rabbits.

Wrong response.

Keeping cats.

Note: Keeping cats is the biological method of controlling pests but not weeds.
When rabbits are kept, they will feed on weeds hence reducing them.

48. How are gills important to a mushroom?

Correct response.

- Gills produce and store spores.
- Gills produce spores
- Gills store spores
- Wrong response
- Gills store and produce spores.

Note: order matters; gills cannot store what they have not yet produced

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49. Name the method of preserving food when blocks of ice are put in a fresh fish.

Correct response.

- Freezing
- Wrong response
- Refrigeration.

50. How does salting meat preserve it?

Correct response.

- ✓ Salt dehydrates moisture from meat.

Wrong responses.

- ✓ Salt evaporates moisture from meat.
- ✓ Salt removes moisture from meat. (How does it remove moisture?)

51. Name the type of temporary magnet made using electricity.

Correct response

- ➡ Electromagnet.
- ➡ Wrong response
- ➡ Electromagnet.

Note: Electromagnet is one word.

52. How do hookworms affect the circulatory system?

Correct response.

Hookworms suck blood from the body and lead to hookworm anemia.

Note: When hookworms suck blood from the body there is a shortage of iron which leads to hookworm anemia.

53. Why does a pen fail to write on the paper where oil has been poured?

Correct response.

- There is less friction between the paper and pen.

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-Frictionbetweenthepaperandthepenisreduced.

Wrongresponse

Thereisnofrictiononthepaper.

Note:Pouringoilonapaperdoesnotremovefrictionbutreducesit

54.Giveareasonwhyrespiration,digestionandphotosynthesisarechemicalchangesthroughtheyoccurinthelifeoflivingthings.

Correctresponses.

Theyinvolvechemicalreactionswhentakingplace.

Wrongresponses.

Theyareirreversible.

Theyformnewsubstances

Note:Digestioninvolvesenzymesandthesespeedupchemicaldigestion.

Inrespiration,oxygenburnsfoodtoreleaseenergy,carbondioxideandwatervapour.
.So,burningisachemicalreaction.

Duringphotosynthesis,plantsstorestarchinformofchemicalenergy.

55.Howarearteriesabletopreventthebackflowofbloodinthem?

Correctresponses.

Bytransportingbloodatahigherpressure.

Wrongresponses.

Byusingvalves.

Note:Arteriesdon'thavevalvestopreventthebackflowofblood.Valvesarefoundinveins.

56.Whichmethodofmakingalcoholproducesthehighestconcentratedalcohol?

Correctresponses.

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Distillation.

Wrong responses

Distilling.

Note; Distilling is not the method but an activity.

57. Mention any one plant that reproduces by means of spores.

Correct responses.

- ✓ Liverwort
- ✓ Ferns
- ✓ Mosses
- ✓ Wrong responses
- ✓ Mushrooms

Note: mushrooms reproduce by means of spores but they are not plants because;

- ✓ They don't have chlorophyll
- ✓ They don't make their own food

58. What is the main cause of fainting?

Correct response

Storage of oxygenated blood supply to the brain.

Or

Limited supply of oxygenated blood to the brain

Wrong response.

Lack of oxygen supply to the brain

Note: the brain does not completely lack oxygen but the oxygen there may not be enough

59. What is the importance of wearing a sweater?

Correct response.

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Asweaterkeepsthebodywarm.
Asweaterpreventsheatlossfromthebody.

Wrongresponses.

Asweaterprovideswarmthtothebody.

Note:Asweaterdoesnotprovidewarmthbutpreventsheatfromescapingfromthebody.
Soitkeepsthebodywarm.

60.Whatistheimportanceofathermosflaskinahome?

Correctresponse.

Athermosflaskkeepshotfooditemshotandcoldfooditemscold.

Wrongresponses.

Athermosflaskkeepshotthingshotandcoldthingscold.

Note:Whatarethosethingskeptinthe flask?

Aretheystones,whatarethey?Soherealearnerneedstobespecificonwhatisstoredinathermosflask.

61.Statetheimportanceofavacuuminathermosflask.

Correctresponses.

Itpreventsheatlossbyconductionandconvection.

Wrongresponses.

Itpreventsheatlossbyradiation.

Note:Avacuumdoesnotconductheatbecauseitlacksmatter.
Thevacuumpreventsheatlossbyconductionbecauseitdoesnotconductheatbecause thereisnosolid.

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The vacuum prevents heat loss by convection because there is neither a liquid nor a gas to transmit heat.

N.B. Heat travels through a vacuum by radiation.

This is because heat transfer by radiation does not need a medium of transmission.

62. What is the main cause of cannibalism among poultry?

Correct responses.

Prolapse

Wrong responses.

Poor feeding.

Overcrowding birds in a poultry house.

Note: prolapse is a condition in which a hen's vent or cloaca is pushed outside its body.

63. Where in the human digestive system does absorption of digested food take place?

Correct answer.

In the ileum.

Wrong answer.

In the small intestines.

Note: The small intestines are made up of two parts: the upper part called the duodenum and the lower part called the ileum. So absorption of digested food does not take place in the whole small intestines but specifically in the ileum.

64. Why is BCG vaccine given to babies at birth?

Correct responses.

The baby is born without maternal immunity against tuberculosis.

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Wrong response.

To protect babies from tuberculosis.

Note babies are born without any natural immunity to resist tuberculosis. Maternal immunity means immunity got from the mother

65. Give a reason why measles vaccine is administered to children at nine months.

Correct response.

Babies are born with maternal immunity against measles which lasts for nine months

.

Wrong response.

Babies are protected against measles at birth.

66. Identify the part in the human alimentary canal where absorption of water takes place?

Correct responses

In the colon.

Wrong responses.

In the large intestines.

Note: Large intestines are made up of two parts i.e. the upper part called colon and the lower part called rectum.

Absorption of water specifically occurs in the colon but not in the whole large intestines.

67. Mention two methods of heat transfer in matter.

Correct responses.

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❖ Convection

Wrong responses.

Radiation

Note: Radiation is the transfer of heat in a vacuum and space. It is not a method of heat transfer in matter.

N.B: The above question is different from this below.

Name any two methods of heat transfer.

- Conduction
- Convection
- Radiation

In this question, there isn't any specification.

It is an open question

68. Why is water called a universal solvent.

Correct responses.

It dissolves almost all solutes.

Wrong responses.

It dissolves all solutes.

Note: water does not dissolve all solutes that's why the word almost is used

69. Why is the handle of a frying pan made of wood?

Correct responses.

To prevent the hands of the user from getting burnt.

Wrong responses.

Wood is a bad conductor of heat.

70. Identify the disorder of the digestive system that results from improper chewing of food.

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Correct responses.

Indigestion

Wrong responses.

Choking.

Note: choking is not the disorder of the digestive system. It only affects the respiratory system

71. Why is a sugar cane not referred to as a stem tuber?

Correct response.

A sugar cane stores its food in its upright stem.

Wrong response.

A sugar cane does not store its food in its swollen underground stem.

Note: Sugar canes don't have swollen underground stems.

72. Why is a maize grain called a fruit?

Correct response.

A maize grain has two scars.

Wrong response.

A maize grain has one cotyledon.

Note: A maize grain has two scars: a stalk scar and a style scar.

73. Give any three characteristics of insect-pollinated flowers.

Correct responses

➤ They have brightly coloured petals.

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- They are scented.
- They produce less pollen grains
- They produce nectar.

Wrong response.

Their stigma is longer/taller than the anthers.

Their stigma is never long. What is long is the style but not the stigma.

The anther head is never long what is long is the filament.

N.B: It is correct to say insect pollinated flowers have longer styles than filaments.

74. How are scavenger birds important in the environment.

Correct response

They help to clean the environment by feeding on the carrion.

They help to clean the environment by feeding on decaying flesh of dead animals,

Wrong response.

They help to clean the environment by feeding on dead decaying flesh.

Note: Flesh does not die.

75. State the role played by sunlight energy during photosynthesis.

Correct response.

- ✓ Sunlight provides plants with energy to carry out photosynthesis.
- ✓ Sunlight splits water into hydrogen and oxygen.

Wrong response.

Sunlight helps plants to make their own food.

76. Why is carbon dioxide used in fire extinguisher?

Correct response.

Carbon dioxide does not support burning.

Wrong response

To put out fire.

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Note: We used to put out fire if we were asked the importance of carbon dioxide in a fire extinguisher.

77. Mention any two properties of air.

Correct response.

- Air has weight
- Air exerts pressure
- Air occupies pressure
- Air can be compressed

Wrong response

Air moves things.

Note: Air moves things is not a property of air. For example.

78. Which property of air is demonstrated by children flying kites?

Correct response

Air exerts pressure

Wrong response

Air moves things.

Note: When flying a kite, pressure is exerted on it which enables it to fly easily.

79. What is breathing?

Correct response

Breathing is the taking of air in and out of the lungs.

Wrong response

Breathing is the taking of oxygen and out carbon dioxide.

Note: During breathing we breathe in all components of air and also breathe out all components of air only that their percentages differ.

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We breathe in 21% of oxygen and breathe out 16% of it.
We breathe in 78% nitrogen and breathe out 78% of it.
We breathe in 0.03% of carbon dioxide and breathe out 4% of it.
We breathe in 0.97% of it.
We breathe in less water vapour and breathe out more water vapour

80. What is the difference between the air we breathe in and the air we breathe out?
The air we breathe in contains more oxygen and less carbon dioxide while the air we breathe out contains more carbon dioxide and less oxygen.

Wrong response

The air we breathe in is oxygenated while the air we breathe out is not oxygenated.

81. How do mushrooms breathe?

Correct response

Mushrooms breathe through their cells.

Wrong response

Mushrooms breathe through gills.

Note: In a mushroom, gills are used to produce and store spores.
Gills in a mushroom also help to hold up the cap of a mushroom.

82. Write any two primary sex characteristics found in both boys and girls.

Correct responses

Production of gametes.
Enlargement of sexual organs.
Development of gonads.

Wrong responses.
Sweat glands become more active.
Change in voice.
Growth of hair in armpits and around the pubic area.

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Note: The above wrong responses are secondary sex characteristics but not primary sex characteristics.

83. What is agroforestry?

Correct response

Agroforestry is the growing of crops together with animals alongside rearing animals.

Wrong response

Agroforestry is the growing of crops and rearing of animals on the same piece of land.

Note: Agroforestry is made up of crops, trees and animals. Growing crops and rearing animals on the same piece of land is mixed farming.

84. Name the non-metallic conductor of electricity.

Correct response

Carbon.

Wrong response

Carbon rod.

Note: Carbon rod is a non-metallic conductor of electricity in a dry cell.

85. Identify the component of soil which supports germination of seeds.

Correct response

Water

Wrong response

Air

Note: Air is the component of soil but not all components of air support germination. Remember air is the mixture of gases.

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Water is the component of soil and also support germination of seeds.

How does sun drying preserve cassava?

Correct response

Heat from the sun causes evaporation of moisture from cassava.

Wrong response

Sun drying absorbs moisture from cassava.

Note: It is not sun drying that removes moisture from cassava but heat from the sun.

86. State the importance of red blood cells in the body.

Correct response

Red blood cells transport oxygen to all parts of the body.

Wrong response

Red blood cells transport oxygenated blood to all body parts.

Note: the above response is wrong because blood cannot carry itself

87. Give one reason why lungs are referred to as respiratory organs.

Correct response

Lungs allow oxygen into the body for respiration.

Wrong response

Lungs are used for breathing.

88. How does weeding of a garden control pests?

Correct response

Weeding destroys the hiding places for pests.

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Wrongresponse

Weedingkillspests.

89.Howdoesacaterpillarprotectitself?

Correctresponse

Byusingitspricklyhair.

Wrongresponse

Byusingitsprickyhair.

Note:markthespellingofthewordpricklybutnotpricky

90.Howdoesaventilatedpitlatrinecontrolthespreadofdiarrhoealdiseases.

Correctresponse

Ithasascreenwhichtrapsandkillshouseflieswhichspreaddiarrhoealdiseases.

Wrongresponse

Ithasascreen.

91.Whyispoliovaccinegiventobabiesatbirth?

Correctresponse

Babiesarebornwithoutmaternalimmunityagainstopolio.

Wrongresponse

Toprotectbabiesfrompolio.

Note:Maternalimmunitymeansimmunityababyacquiresfromthemothereatbirth.

92.Howishookworminfestationdangeroustothebody?

Correctresponse

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Hookworms feed on blood which causes hookworm anaemia.

Wrong response

Hookworms feed on one's blood.

Note: Hookworms cause shortage of blood in the body which results in shortage of iron.

93. Name the disease that results from hookworm infestation.

Correct response

Hookworm anemia

Wrong response

Anemia

94. Identify one sexually transmitted disease that affects the liver.

Correct response

Hepatitis B

Wrong response

Hepatitis A

Gonorrhea

Note: Hepatitis B can only spread through having unprotected sex with an infected person.

It also spreads when we come into contact with body fluids like semen, blood, vaginal fluid etc.

Gonorrhea is sexually transmitted but does not affect the liver.

95. How does overcultivation cause soil erosion?

Correct response.

Overcultivation makes soil particles loose.

Wrong response.

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Overcultivationleavesthesoilbare.

96.Towhichgroupofanimalsisahousefly?

Correctresponse

Invertebrates.

Wrongresponse

Arthropods

Insects

Note:Thequestionisaskingaboutagroupofanimalsandanimalsaredividedintover
tebratesandinvertebrates.

Ahouseflydoesn'thaveabackbonesoitbelongsunderinvertebrates.

97.Whatisajoint?

Correctresponse.

Ajointisaplaceinthebodywheretwoaremorebonesmeet.

Wrongresponse

Ajointisaplacewheretwoormorebonesmeet.

Note:Youneedtoshowwhereajointislocated.

98.Giveanytwocharacteristicscommontoallmammals.

Correctresponse.

Allmammalshavemammaryglands.

Allmammalshavefurontheirbodies.

Allmammalsbreastfeedtheiryoungonesonbreastmilk

Wrongresponse

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All produce young ones alive.

Note: Not all mammals produce young ones alive for example monotremes or egg-laying mammals.

The question requires you to consider the specific characteristics common to all mammals

101. Why is a sugar cane not called a stem tuber

Correct response

A sugar cane stores its food in its upright stem

Wrong response

A sugar cane does not store its food in its swollen underground stem

Note: A sugar cane has an upright stem in which it stores food. Stem tubers have stems that grow underground

102. What is blood circulation?

Correct response

Blood circulation is the continuous movement of blood around the body

Wrong response

Blood circulation is the movement of blood around the body

Note: The word continuous is very important in the answer because the movement of blood around the body does not stop as long as the person is still alive.

Types of blood circulation

(a) Pulmonary blood circulation

This is the circulation of blood to and from the lungs

(b) Systemic blood circulation

This is the circulation of blood from the heart to all other parts of the body

103. Why is a spider not regarded as an insect?

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Correct response

- A spider has two main body parts while an insect has three main body parts
- A spider has four pairs of jointed legs while an insect has three pairs of jointed legs
- A spider breathes through book lungs while an insect breathes through spiracles

Wrong response

A spider has two main body parts

A spider has three pairs of jointed legs

A spider has breathes through the book lungs

Note: This question calls for comparison of the characteristics of a spider and those of an insect

104 Give one reason why a maize grain is not referred to as a seed

Correct response

- A maize grain has two scars while a seed has one scar

Note: The negative element of not brings in comparison of differences between a seed and a fruit

105. What type of pollination do pawpaw plants undergo?

Correct response

Cross pollination

Wrong Response

Self-pollination

Note: In pawpaw plants, the pistil and the stamen appear on separate plants which results in cross pollination

Maize plants also undergo cross pollination

Question how do maize plants avoid self-pollination

The pistil and the stamen appear on the same plant but mature at different times.

106. What is the main cause of cannibalism?

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Correctresponse

Prolapse

Wrongresponse

- Overcrowding of birds in a poultry house
- Too much light in the poultry house
- Food shortage

Note: **Prolapse is when the bird's vent comes out of the bird's body**

107. What is poultry

Correctresponse

Poultry refers to all kinds of domestic birds

Wrongresponse

Poultry is the rearing of domestic birds

Note: Poultry are domestic birds while poultry keeping means the practice of keeping domestic birds

108. Mention two types of poultry?

Correctresponse

- Chicken
- Ducks
- Turkeys
- Doves
- Pigeons
- Geese
- Guinea fowls

Wrongresponse

- Layers
- Broilers
- Dual purpose

Note: The question mainly requires a learner to state types of poultry but not types of chicken.

109. State the importance of arteries in the body

Correctresponse

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Arteries carry blood away from the heart

Wrong response

Arteries carry oxygenated blood to all parts of the body

Note: Note all arteries carry oxygenated blood. For example pulmonary artery carries deoxygenated blood from the heart to the lungs

110. State the importance of veins in the body

Correct response

Veins carry blood toward the heart

Wrong response

Veins carry deoxygenated blood to all body parts

Note: Not all veins carry deoxygenated blood. For example pulmonary vein receives oxygenated blood from the lung to the heart

111. In which state of matter does sound travel fastest?

Correct response

Solids/solid state

Wrong response

Gases/Gaseous state

Note: Sound travels fastest in solids because they have closely packed molecules which allow vibration to take place easily

112. How does a guitar produce sound?

Correct response

By vibration of its strings when plucked

Wrong response

By plucking its strings

Note: Missing the word vibration in the answer makes it wrong because sound is only produced when an object vibrates

113. How is an echo formed?

Correct response

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When sound waves meet an obstacle or barrier

Wrong response

When sound waves are reflected

Note: Echo is the reflected sound so by using the word reflected means repetition

115. Why is it not advisable to use sharp piercing objects to clean the ear?

Correct response

Sharp piercing objects may cause damage to the eardrum

Wrong response

Sharp piercing objects may cause damage to the ear

Note: Sharp piercing objects may not cause damage to the whole ear but to a specific part which is the eardrum

116. Why is it important to wash hands with clean water and soap before preparing ORS?

Correct response

To prevent contamination of Oral Rehydration salts (ORS)

Wrong response

To remove germs

To prevent the spread of diarrhoeal diseases

Note: Hands contain dirt and germs which when not washed away may contaminate ORS.

117. State the danger of having too much wax in the ear

Correct response

Too much wax causes partial deafness

Wrong response

Too much wax blocks sound waves

Note: The question needs one to give the exact result of wax accumulating in the ear which is partial deafness?

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118. Which body organ produces insulin?

Correct response

Pancreas

Wrong response

Liver

Note: The liver does not produce insulin; it only stimulates the pancreas to produce insulin

Qn How is insulin important in one's body?

Insulin regulates blood sugars

119. How are windows, doors, and ventilators important in a house?

Correct response

- They help in free circulation of air in the house
- They help in gaseous exchange in the house

Wrong response

- They take out stale air
- They let in fresh air

Note: Windows and doors allow fresh air in the house while ventilators take out stale air. This is called gaseous exchange or circulation of air

119. How does a vacuum in a thermos flask prevent heat loss?

Correct response

By conduction and convection

Wrong response

By radiation

Note: The vacuum is referred to as a space without matter or an empty space

The vacuum prevents heat loss by conduction because there is no solid to conduct the heat and by convection because there is no liquid or gas to help in heat transfer

120. Give one importance of bacteria in the environment

Correct response

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Bacteria help in information of soil by decomposition.

Wrong response

Bacteria helps in soil formation by decomposition

Note: Bacteria is a plural word so by saying bacterial helps, it makes bacteria a singular one.

For example Bacterial-Plural

Bacterium-Singular

121. How are gills used in a mushroom?

Correct response

Gills produce and store spores

Wrong response

Gills are used for breathing

Note: Gills that are used for breathing are found in fish and tadpoles but gills for a mushroom only produce and store spores

122. Mention any one condition necessary for the multiplication of bacteria.

Correct response

- Moisture
- Food
- Warmth

Wrong response

Oxygen

Note: Oxygen can be a condition necessary for only a certain group of bacteria to multiply but not all kinds of bacteria

For example, anaerobic bacteria can respire in the absence of oxygen.

123. By what process does heat travel through gases?

Correct response

By convection

Wrong response

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By radiation

Note: Radiation is the movement of heat energy in form of waves through an empty space while convection is the bulk movement of heated molecules of fluids and gases in form of currents

124. What type of energy is possessed by timber tied on a packed lorry?

Correct response

Potential energy

Wrong response

Kinetic energy

Note: Potential energy is energy possessed by objects at rest while kinetic energy is the energy possessed by moving objects

Timber packed on the lorry possesses potential energy

125. Name the standard units for measuring weight

Correct response

Newtons

Wrong response

Gram

Note: Weight like all other forces is measured in Newtons but mass is measured in kilograms though its basic units are grams

126. Name the non-flowering plant that reproduces by means of spores

Correct response

Mosses, ferns, liverworts, Horsetails

Wrong response

Mushrooms, puffballs, toadstools

Note: A plant must have chlorophyll but mushrooms, puffballs and toadstools lack chlorophyll though they produce by means of spores so they are not plants

127. How do coniferous plants reproduce?

Correct response

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By means of seeds

Wrong response

By means of spores

Note: Conifers is a group of non-flowering plants that reproduce by means of seeds stored in cones

129. Name the vertebrate which has a shell

Correct response

Tortoise, turtle, terrapin

Wrong response

Snail, cowrie, Oyster

Note:

Snails, cowrie and oysters have shells but they don't have a backbone.

130. What type of fertilization do birds undergo?

Correct response

Internal fertilization

Wrong response

External fertilization

Note: The fusion of nuclei of male and female gametes takes place inside the body of the female animal and this is called internal fertilization

However external fertilization takes place outside the body of a female animal in amphibians and fish

131. Why is a rat called a mammal?

Correct response

A rat has mammary glands

A rat has fur on its body

A rat breast feeds its young ones on breast milk produced by its mammary glands

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Wrongresponse

Aratundergoesinternalfertilization

Aratiswarmblooded

Arathasanendoskeleton

Arathasabackbone

Note: A question demands only specific and main characteristics common to only mammals

132. Write one system used in rearing poultry

Correctresponse

Battery system (cage system)

Fold (pen system)

Wrongresponse

Battery cage system is repetition so we say battery system or pen system

Fold pen system is repetition so we say fold system or pen system

134. Why is DPT vaccine called a triple vaccine

Correctresponse

It is immunised against three childhood immunisable diseases

Wrongresponse

It cures three childhood immunisable diseases

Note: Vaccines do not cure diseases but they prevent diseases before they attack the human body

136. How are red blood cells adapted to their function?

Correctresponse

Red blood cells have haemoglobin which enables them to transport oxygen to all body parts

Wrongresponse

Red blood cells transport oxygen to all body parts

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Note: The question requires you to explain how capable are red blood cells in transporting oxygen to all body parts

137. What are vaccines

Correct response

Vaccines are medical substances introduced into the body to cause it to produce antibodies against disease-causing germs

Wrong response

Vaccines are medical substances introduced into the body to fight against diseases using germs

Note: vaccines do not fight against diseases causing germs. They induce the body to produce antibodies that fight against diseases causing germs

138. Why is BCG given to babies at birth?

Correct response

Babies are born without maternal immunity against tuberculosis

Wrong response

To prevent them from tuberculosis

Note: At birth babies are born with no maternal immunity to protect them from tuberculosis

139. Why are pregnant women given tetanus toxoid vaccine?

Correct response

To protect the mother and her unborn baby from tetanus infection

Wrong response

To protect the mother from tetanus infection at birth

Note: Tetanus toxoid vaccine does not protect only the mother, it even protects the unborn baby from getting infected with tetanus at birth.

140. How does a scorpion reproduce?

Correct response

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By producing live young ones

Wrong response

By laying eggs

Note: A scorpion reproduces differently from other amphibians which lay eggs

.

141. State the importance of bacteria in the environment

Correct response

Bacteria help in decomposition of organic matter

Bacteria help in fermentation of alcohol

Bacteria help in fermentation of milk

Wrong response

Bacteria help in ripening of fruits

Note: Ripening of fruits is done by a hormone called ethylene but not bacteria

142. Identify the germ that causes HIV/AIDS

Correct response

Human immunodeficiency virus

Wrong response

Human immune virus

Note: The word immunodeficiency is one word

143. How are strong sharp curved beaks important to birds of prey

Correct response

They help birds of prey to tear flesh

Wrong response

They help birds of prey to eat the prey

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Note: The prey is not torn by the strong sharp curved beak but killed and held by strong sharp curved talons

144. Why are the lungs referred to as respiratory organs.

Correct response

They allow oxygen into the body for respiration

Wrong response

Lungs are used for breathing

Note: The question requires a learner to give the main importance of lungs during respiration

145. Where does respiration take place?

Correct response

In living body cells

Wrong response

In lungs

Note: Lungs are respiratory organs but not areas where respiration takes place

146. State the importance of chlorophyll during photosynthesis

Correct response

Chlorophyll traps sunlight energy

Wrong response

Chlorophyll helps plants to make their own food

Note: The question requires one to explain how chlorophyll helps plants to make their own food

147. What is breathing?

Correct response

Breathing is the taking of air in and out of the lungs

Wrong response

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Breathing is the breathing of oxygen

Note: The air we breathe in and out contains all the components of air but not only oxygen

148. Name the chemical method of controlling mosquitoes

Correct response

Powering oil on top of stagnant water

Wrong response

Oiling stagnant water

Note: Water cannot be oiled

149. How are roots important to a maize grain?

Correct response

Roots give extra support to a maize plant

Wrong response

Roots absorb water and mineral salts from the soil

Note: Roots appear at the flowering stage to give extra support to a plant

150. Name the addictive drug found in tobacco

Correct response

Nicotine

Wrong response

Tar

Note: Nicotine causes addiction by releasing a chemical called dopamine which causes change in a person's mood

151. How is cattle keeping important to crop farmers?

Correct response

Cattle provide cow dung which acts as a farmyard manure in gardens

Wrong response

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Cattle provide farmers with manure

Note: Manure can only be obtained after decomposition

152. Why is distilled water not safe for drinking

Correct response

It does not contain mineral salts

Wrong response

It contains germs

Note: Distillation boils the water which kills germs but also removes the mineral salts which are essential to human health

153. Why is the filament in an electric bulb coiled?

Correct response

To increase electrical resistance

Wrong response

To reduce electric resistance

Note: The more the number of coils, the greater the resistance and the more the heat produced.

154. Which form of electricity is stored in the dry cells?

Correct response

Chemical energy

Wrong response

Electrical energy

Note: Dry cells store electricity in the form of chemical energy

155. Which form of electricity is produced by dry cells

Correct response

Electrical energy

Wrong response

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Chemical energy

Note: Dry cells change chemical energy stored in them to electrical energy

156. State the similarity between a switch and a fuse

Correct response

Both break the circuit

Wrong response

Both break the circuit in case of high voltage

Note: The question requires one to specify what is common between the function of a switch and the function of a fuse

157. Name the static electricity in nature

Correct response

Lighting

Wrong response

Lightening

Note: It is important to mark the spelling of words for example the word lightning

158. Identify the disorder of the respiratory system which involves the blockage of air to the lungs

Correct response

Choking

Wrong response

Chocking

Note: It is important to mark the spellings of words for example choking with letter c and k is wrong

159. How can malaria be prevented in young children

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Correctresponse

Feedingyoungchildrenonfoodrichincarbohydrates

Wrongresponse

Feedingyoungchildrenoncarbohydrates

Note:Wedon'tdirectlyfeedoncarbohydratesbutonfoodstuffscontainingcarbohydrates

160.Mentionanyoneagentofsoilerosion

Correctresponse

- Flowingwater
- Strongwind
- Movinganimals

Wrongresponse

- Fastflowingwater
- Animals
- Wind

Note:Fastflowingwaterisatfallsandthereforeusedtogeneratehydroelectricity

161.Mentionnayatwotypesofmagnets

Correctresponse

Naturalmagnets

Artificialmagnets

Wrongresponse

Barmagnets

Horseshoemagnets

Note:Barmagnetsandhorseshoesmagnetsarenottypesofmagnetsbutexamplesofartificialpermanentmagnets

162.Statetheimportanceofbrightlycolouredpetalsduringpollination

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Correctresponse

Theyattractpollinators/pollinatingagents

Wrongresponse

Theyprotecttheinnerpartsofiflower

Note:Thequestionrequiresalearnertoansweritgivingimportanceofpetalsinrelati
ontopollination

163.Howdoespolioaffecttheskeleton/

Correctresponse

Poliocausesparalysisoflimbs

Wrongresponse

Poliocauseslameness

Note:Thequestionrequiresalearnertotalkabouthowpolioaffectstheskeleto
nnotthepersonsufferingfromit

164.Identifyoneairbornediseasesthataffectstheskeleton

Correctresponse

Tuberculosisofthespine/bones

Wrongresponse

Tuberculosis

Note:Therearetwoformsoftuberculosistheonethataffectsthelungsandtheot
heronethataffectsthebackbone.Sotuberculosisofthespineaffectstheskeleto
n

165Whatiselectricity?

Correctresponse

Electricityistheformofenergywhichinvolveselectriccharges

Wrongresponse

Electricityistheformofenergyproducedbytheflowofelectrons

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Note: The above definition brings in contradiction between current electricity and static electricity

Current electricity is defined as the type of electricity which involves the flow of electrons while static electricity is defined as the type of electricity which does not involve the flow of electrons

So the first definition is correct because both current and static electricity have charges.

COMMON MISPELLED WORDS IN SCIENCE

S/N	WRONG SPELLING	CORRECT SPELLING
1.	Tapeworm	Tapeworm
2.	Hookworm	Hookworm
3.	Nector	Nectar
4.	Habbit	Habit
5.	Hidding	Hiding
6.	Hairly	Hairy
7.	Casualty	Casualty
8.	Regularly	Regularly
9.	Waterly	Watery
10	Overcrowdness	Overcrowdness
11	Feaces	Faeces
12	Tetanus	Tetanus
13	Diphtheria	Diphtheria
14	Chocking	Choking
15	Dysentry	Dysentery
16	Rainfall	Rainfall
17	Sunlight	Sunlight
18	Lukewarm	Lukewarm
19	Electromagnet	Electromagnet
20	Carbondioxide	Carbondioxide
21	Endoskeleton	Endoskeleton
22	Exoskeleton	Exoskeleton
23	Radical	Radical
24	Verticle	Vertical
25	Backbone	Backbone
26	Ringworm	Ringworm
27	Toadpole	Tadpole
28	Featherpicking	Featherpecking
29	Diaphram	Diaphragm
30	Fillament	Filament
31	Prunning	Pruning

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32	Incissortooth	Incisortooth
33	Bubonicplague	Bubonicplague
34	Dentalcarries	Dentalcaries
35	Twinning	Twining
36	Cleanless	Cleanliness
37	Teracing	Terracing
38	Vaccum	Vacuum
39	Difussion	Diffusion
40	Transmiton	Transmission
41	Hydroelectricity	Hydroelectricity
42	Venacava	Venacava
43	Carbonmonoxide	Carbonmonoxide
44	Evapouration	Evaporation
45	Copiccing	Coppicing
46	Weavils	Weevils
47	Ovacado	Avocado
48	Bitting	Biting
49	Sunshine	Sunshine
50	Syphillis	Syphilis
51	Condersation	Condensation
52	Droughtcattle	Draughtcattle
53	Diarycattle	Dairycattle
54	Fresian	Friesian
55	Rabbitary	Rabbitry
56	Illeum	Ileum

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57	Mohair	Mohair
58	Earcancer	Earcanker
59	Sunctionpads	Suctionpads
60	Auxillarybud	Axillarybud
61	Abstainance	Abstinence
62	Hydrostaticskeleton	Hydrostaticskeleton
63	Endosperm	Endosperm
64	Angolarabbit	Angorarabbit
65	Turbidspinging	Tepidspinging
66	Angolagoat	Angoragoat
67	Halters	Halterers
68	Penecillin	Penicillin
69	EggYork	EggYolk
70	Umbilicalcord	Umbilicalcord
71	Binaryfusion	Binaryfission
72	Earthworm	Earthworm
73	Upthrust	Upthrust
74	Battry	Battery
75	Borehole	Borehole
76	Filteration	Filtration
77	Toadstool	Toadstool
78	Waterproof	Waterproof
79	Grasshoppers	Grasshoppers
80	Dumpness	Dampness
81	Farmyardmanure	Farmyardmanure

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82	Itself	Itself
83	Adoloscence	Adolescence
84	Rainny	Rainy
85	Eardrum	Eardrum
86	Sannen	Saanen
87	Cornifers	Conifers
88	Distilate	Distillate
89	Distilation	Distillation
90	Plumonaryartery	Pulmonaryartery
91	Unwanted	Unwanted
92	Candida	Candidiasis
93	Onchonchercavolvulus	Onchocercavolvulus
94	Backflow	Backflow
95	Bilharzia	Bilharziasis
96	Peristalisis	Peristalsis
97	Appendicytis	Appendicitis
98	Runningnose	Runnynose
99	Meteology	Meteorology
10	Tetharing	Tethering
10	Windlass	Windlass

METHODSOFCATCHINGUPWITHSPELLINGSOFSCIENTIFICWO
RDS

PNEUMONIA

P–Peter

N–Never

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E-Entered

U-Umonia

COMMONLY ABUSED DRUGS

T -Tobacco

A -Alcohol

M -Miraa

M -Miraa

A -Alcohol

T -Tobacco

Types of teeth

I can play Matatu

I -Incisor

C -Canine

P -Premolar

M -Molar

Tick Borne Diseases

H -Heartwater

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E -EastCoastfever
A -Anaplasmosis
R -Redwater

Coloursoftherainbow

ROYGBIV

R -Richard
O -Okello
Y -Your
G -Girl
B -Betty
I -Is
V -Vomiting

Componentsofblood

Whypeopleplantrice

W -Whitebloodcells
P -Plasma
P -Platelets
R -RedBloodcells

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3Smallbonesintheear

M	-Malleus	H	-Hammer
I	-Incus	A	-Anvil
S	-Stapes	S	-Stirrup

FirstAidforsprainsandstrains

R	-Rest
I	-Ice
C	-Compression
E	-Elevation

Conditionsneededforseedgermination

W	-Warmth
O	-Oxygen
M	-Moisture

Typesoffracture

Cosma	-Compoundfracture
Gave	-Greenstickfracture
Simon	-Simplefracture
Cassava	-Comminutedfracture

Setsforteeth

P	-Permanentteeth
M	-Milkteeth

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OR

M -Milkteeth

P -Permanentteeth

LOVESCIENCE,PASSSCIENCE

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