

LESSON NOTES FOR P.4 SCIENCE TERM III

THEME: HUMAN HEALTH

SUB –THEME: COMMUNICABLE DISEASE AND WORM INFESTATIONS

CONTENT: COMMUNICABLE DISEASES

Vocabulary

- Diarrhea
- Dysentery
- Typhoid
- Infected
- Diseases
- Faecal
- Communicable

WHAT ARE COMMUNICABLE DISEASES?

These are diseases that are spread from an *infected* person to a healthy one.

Examples of communicable diseases

- diarrhoea
- dysentery
- cholera
- typhoid
- ebola
- polio
- tetanus
- measles
- tuberculosis
-

Communicable intestinal diseases

These are diseases that attack the intestines and spread from a sick person to another.

Examples of communicable intestinal diseases

- typhoid
- cholera
- diarrhea
- dysentery

Non- communicable diseases

These are diseases that do not spread from a sick person to a healthy one.

Examples of non communicable diseases

- cancer
- kwashiorkor
- marasmus
- night blindness
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Causes of intestinal common communicable diseases

Dysentery – bacteria

Cholera – bacteria

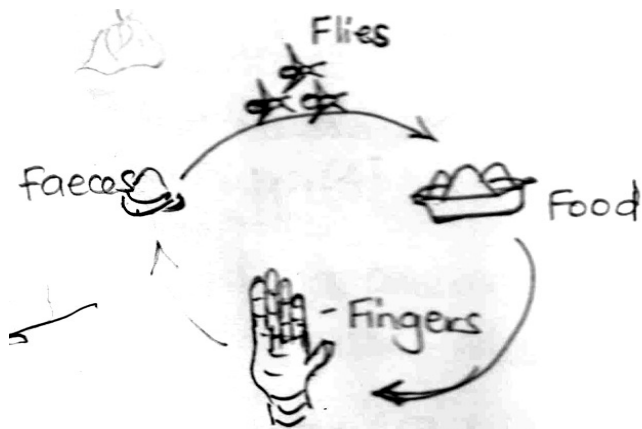
Typhoid – bacteria

Diarrhoea – virus or bacteria

How these diseases are spread

They are spread through the 4F's i.e.

- Faeces
- Flies
- Food
- Fingers
- Through drinking un boiled water
- Eating contaminated food.
- Body contact with an infected person



4Fs in full – Faeces Flies Food Fingers

Activity

1. What are communicable diseases?
2. Give two examples of communicable diseases
3. Why is cholera regarded as a communicable disease?
4. How are communicable diseases different from non communicable diseases?
5. State the reason why we should boil water for drinking.
6. Why should a person with diarrhea pass out much watery stool?
7. Apart from cholera, name one other intestinal communicable disease.
8. Why should you not shake hands with a person having diarrhea?
9. Why should we cover our food?
10. Apart from bacteria, name any other cause of diarrhea.

DIARRHOEA

Diarrhoea is the frequent passing out of watery stool.

Signs and symptoms of diarrhoea

- The person passes out watery stool.

DYSENTERY

Dysentery is the frequent passing out of watery stool with blood stains.

How dysentery spreads

- Through the 4Fs
- Through contaminated water

Causes of dysentery

- It is caused by bacteria called **shigella**
- It is also caused by amoebas in the group called **entamoeba histolytica**.

TYPHOID

Vocabulary

- Salmonella

- Typhi
- Contaminated
- Severe
- Vomiting
- Headache
- Stomachache
- Defecation
- Faeces

It is caused by bacteria called Salmonella typhi

How it spreads

- Through the 4Fs
- Through contaminated food and water

CHOLERA

It is caused by bacteria called Vibrio cholerae

How does cholera spread?

Through contaminated food or water

Signs of cholera

- Serious diarrhea
- Vomiting
- Dehydration
- Weakness

Prevention and control of Diarrhoeal diseases

- Proper disposal of faeces
- Boiling drinking water
- Covering cooked food
- Re-heating leftover food
- Washing hands after visiting the latrine

Mixed activity

1. Give the meaning of communicable diseases.
2. Apart from typhoid, mention any other two examples of communicable diseases.
3. Write the 4Fs in full
4. Which vector is a major carrier of germs in the 4Fs?
5. Why are houseflies able to spread diseases?
6. How can a mother protect her baby from kwashiorkor?
7. Why should we wash fresh fruits before eating?
8. State the importance of root hairs to a maize plant.

Practical

DEHYDRATION

Vocabulary

- Dehydration
- Severe
- Rehydration
- Diarrhea
- Severe
- Sunken
- Soft sport
- Fontanelle

DEHYDRATION

Dehydration is a condition when the body does not have enough water in it.

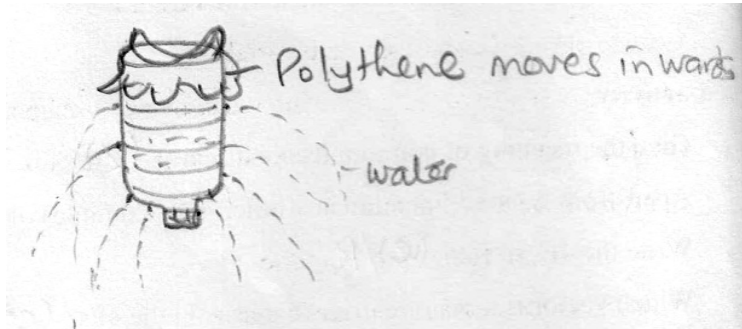
Causes of dehydration

- Severe diarrhea
- Severe vomiting

Signs of dehydration

- Sunken eyes
- Dry mouth / lips
- The person passes out little or no urine

- Sunken fontanelle in babies
- Get an empty mineral water bottle.
- Cut it at the top and tie it with a polythene.
- Fill the cut bottle with water and drill some small holes at the bottom and sides to let out water



Salts lost during dehydration

- Sodium
- Potassium

Treatment and prevention of dehydration

- Drinking water regularly
- Give the patient ORS (Oral Rehydration Solution)

ORAL REHYDRATION SOLUTION

- Its short form is ORS .
- It is used to treat dehydration.

MIXING AND MAKING ORS FROM A SACHET

- Wash hands and containers to be used.
- Measure one litre of safe drinking water into a container.
- Open the packet of ORS and empty it into the litre of water.
- Stir the mixture well to form a solution
- Taste the solution, it shouldn't taste salty
- Give the drink to the dehydrated person

How to make a salt sugar solution locally

- Wash hands and containers to be used
- Measure one litre of safe drinking water in to a container

- Measure one leveled teaspoon of salt and eight leveled tea spoons of sugar into a container of water.
- Stir the mixture well until the salt and sugar disappear.

Mixed activity

1. What is dehydration?
2. Give one sign to tell that Nakato is dehydrated.
3. Give one way food gets spoilt
4. Write 4Fs in full
5. Why do we keep our bodies clean?
6. Why should a dehydrated person be given ORS?
7. How are perennials different from annuals?
8. Name one garden crop pest.
9. How can oral fluids be useful to a dehydrated person?

Note:

- Taste the solution and ensure it is not salty
- Give the solution to a dehydrated person
- Sugar is used to give the patient energy.
- Salt is used to replace the lost salts (Sodium) in the body.

Mixed activity

1. Briefly explain the term dehydration.
2. Identify any two causes of dehydration.
3. How can P.4 children tell that one of their friends is dehydrated.
4. Why are victims of dehydration given ORS?
5. State the importance of salt during making of ORS.
6. Apart from sodium, name any other salt lost during diarrhea and vomiting.
7. Why should plants be pruned?

WORMS

Vocabulary

- Anaemia
- Infestation
- Parasite

- Hookworms
- Ascaris
- Round worms
- Swollen
- Belly
- Threadworms
- Sucker

WORMS

Worms are internal parasites.

A parasite is an organism that depends on another organism for food and shelter

Examples of intestinal worms

- Hook worms
- Thread worms / pin
- Tape worms
- Ascaris

HOOK WORMS

- They have hooks
- They live in the intestines
- They feed on blood in the human body.

How they enter our bodies

- By penetrating the skin when we walk bare footed in wet places
- When we drink water containing hook worms

Danger of hook worms

- They suck blood leading to hook worm anaemia

Signs and symptoms of hook worm infestation

- Abdominal discomfort
- The person feels weak and tired
- The person becomes anaemic
- Loss of weight

Prevention of hook worms

- Wash all fruits before eating
- Wearing sandals whenever going to a wet place.
- Boiling drinking water

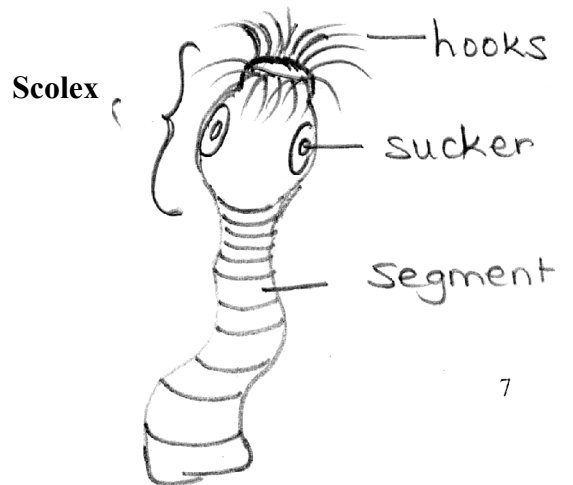
TAPE WORMS

- They live in the intestines
- They feed on digested food
- Their bodies are divided into segment
- When the segment matures it breaks off
- They use hooks to hold onto the intestines

How do tape worms enter our bodies

When we eat half cooked meat containing tape worms

Structure of a tape worm



Functions of the parts

- **Hooks** for attachment on to the intestines
- **Suckers** for sucking digested food from the small intestines

Signs and symptoms of tape worm infestation

- The person becomes weak
- The person passes out stool with tape worm mature eggs.

Dangers of tape worms

- They suck digested food leading to malnutrition.

- They lead to intestinal obstruction

Prevention on tape worms

- Boiling all meat properly

Activity

1. What do tape worms feed on?
2. How do the tapeworms enter our bodies?
3. Give one way in which we can prevent tapeworms from entering our bodies.
4. What is the use of the suckers on a tape worm?
5. State the importance of ORS to a dehydrated person
6. How are tapeworms dangerous to people?
7. What do tape worms feed on in humans?

THREAD WORMS (*Pin worms*)

How they look like

- They resemble hook worms but they are very small. (smaller than hook worms)
- They live in the large intestine (rectum)

How they enter our bodies

- They enter our bodies when we walk bare footed.
- They move with blood to the lungs where they are coughed and swallowed to the small intestines

Signs and symptoms of thread worm infestation

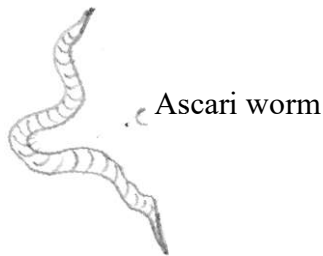
- A person passes out worms in the faeces
- Abdominal pain
- Worms can be coughed out
- A child has a swollen belly

Prevention and control

- Scrubbing toilet seats with soap
- Regular deworming
- Washing hands with soap after visiting the latrine.

ASCARIS

- They live in the bowels of man
- They feed on digested food



How they enter the human body

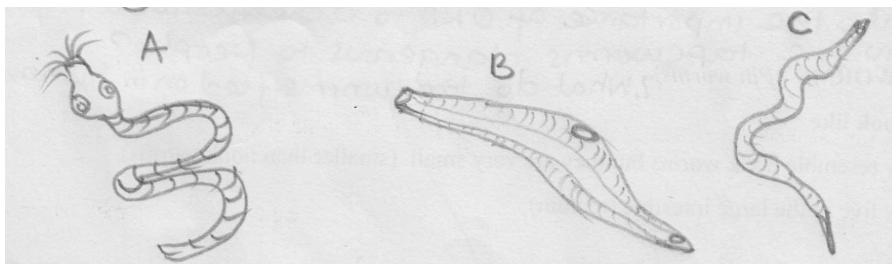
- Through contaminated food and water

Ways of preventing intestinal worms

- Cooking all food properly
- Wearing sandals or shoes
- Proper disposal of faeces
- Regular deworming to kill worms
- Washing fruits before eating.

End of topic revision questions

1. What is diarrhea ?
2. How do germs that causes diarrhea get into the body?
3. State the difference between diarrhea and dysentery.
4. State two ways of preventing diarrhoeal diseases.
5. How does a latrine help to control diarrhoeal diseases?
6. What do we call a condition when a person does not have enough water in the body?
7. State three signs of dehydration.
8. The diagram below shows worms



- a) Identify the worms shown in A, B and C.
- b) State one common sign of a person with worm B
- c) Suggest two ways of preventing the above worms in humans

THEME : HUMAN HEALTH

Vocabulary

- Housefly
- Tsetse fly
- Metamorphosis
- Plague
- Rabies
- Cholera
- Plasmodium
- Bilharzias

HUMAN HEALTH

TOPIC: DISEASES VECTORS

Diseases vector:- is a living organism that spreads disease *causing* germs

Examples of disease vectors

- | | | | |
|----------------|---------------|-----------------|---------------------|
| - Houseflies | - cockroaches | - Infected dogs | - fresh water snail |
| - mosquitoes | - black flies | - ticks | |
| - tsetse flies | - lice | - rat fleas | |

Metamorphosis of Insects

- **Metamorphosis** are development stages of insects

Types of metamorphosis

- Complete metamorphosis
- Incomplete metamorphosis

Complete metamorphosis

- Is the type of metamorphosis where an insect undergoes four stages of development.

Stages of complete metamorphosis

- eggs
- larva
- pupa
- adult

Examples of insects which undergo complete metamorphosis

- Houseflies
- Mosquitoes
- beetles
- Butterflies
- Wasps
- ladybirds
- Bees
- moths

Incomplete metamorphosis

This is where an insect undergoes three stages of development.

Stages in incomplete metamorphosis

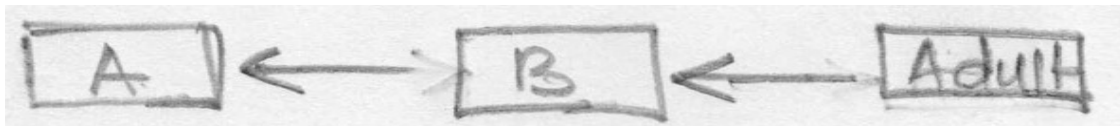
- eggs
- nymph
- adult

Insects that undergo incomplete metamorphosis

- Grasshopper
- Locusts
- Termites
- cockroaches
- white ant
- bed bugs

Activity

1. Define the term vector
2. Differentiate between a vector and a germ
3. Mention one insect which under goes complete metamorphosis
4. Why is a housefly dangerous to man?
5. Apart from a grasshopper, name two other insects which undergo complete lifecycle.
6. Complete the stages of life cycle labeled A and B.



CONTENT: HOUSE FLIES

Vocabulary

- Rubbish
- Maggot
- Breeding
- Faeces
- Hairly
- Proboscies
- Diarrhea
- Breeding
- Hairly

HOUSE FLIES

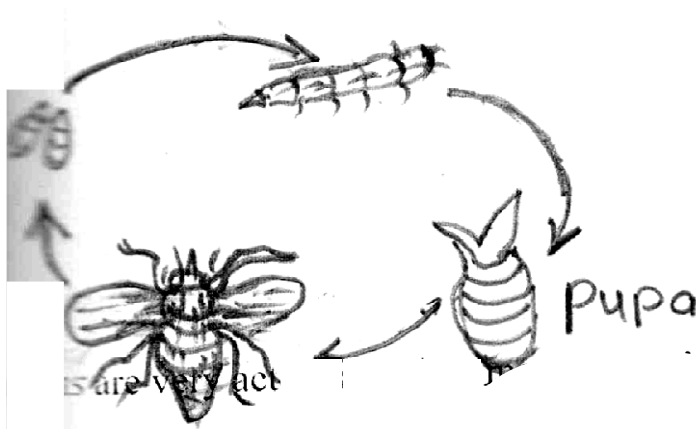
A house fly is a vector because it spreads many diseases.

It is able to spread diseases because it has the hairy body.

Breeding places

- Rotting rubbish
- Faeces
- Manure heaps
- Latrines
- Rotting bodies of animals

The lifecycle of a housefly



Maggots are very active and they move by **wriggling**.

- Maggots *break down* faeces in latrines
- The pupa stage of a housefly is dormant. They don't eat or move.
- The adult stage of a housefly is dangerous because it spreads many diseases.

Activity

1. Why is a housefly called a diseases vector?
2. How is a housefly able to spread diseases?
3. Name the larva stage of a housefly.
4. Which stage of a housefly is dangerous?
5. How are maggots useful to man?
6. Mention any two breeding places for houseflies.
7. Give a difference between a germ and a vector.

Ways in which they spread diseases

- Using their hairy bodies to carry germs

The 4F's germ path

- Faeces
- Flies
- Food
- Fingers

Diseases spread by a housefly.

- Cholera
- Typhoid
- Trachoma
- Dysentery
- Diarrhoea

Prevention of these faecal diseases

- Cover leftover food.
- Throw away waste food
- Clean and cover latrines regularly
- Smoking pit latrines
- Burn rubbish
- Spray using insecticides
- Dispose faeces and urine in toilets properly

Activity

1. Mention three places where houseflies are found.
2. State two ways in which houseflies spread diseases.
3. Write the 4F's in full and in order.
4. Mention two diseases spread by houseflies.
5. Point out two ways of preventing the diseases mentioned above.
6. Apart from a housefly, name any other disease vector.
7. Name the main vector in 4Fs germ path.
8. Why should we clean latrines regularly?

MOSQUITOES

Vocabulary

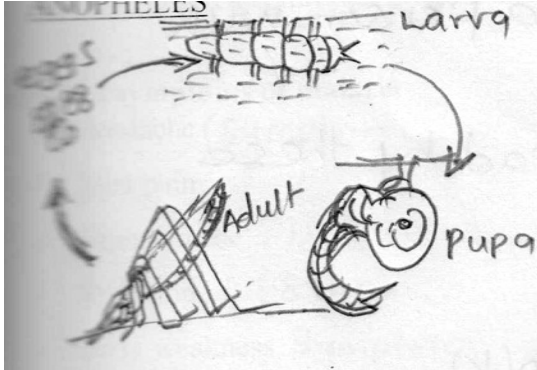
- Mosquito
- Trumpet
- Wiggler
- Proboscis
- Aedes
- Elephantiasis

Types of Mosquitoes

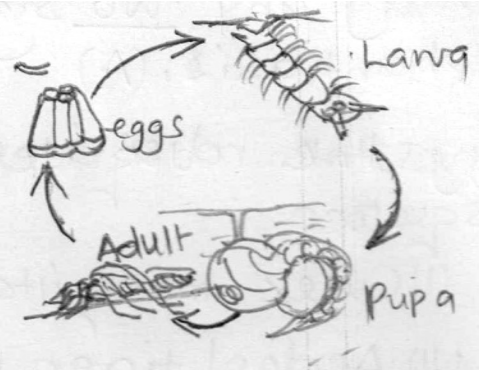
- Culex mosquito
- Anopheles mosquito
- Aedes/tiger mosquito

LIFE CYCLE OF MOSQUITOES

ANOPHELES



CULEX AND AEDES



- The larva stage of a mosquito is called a wriggler. The larva moves by wriggling in water.
- The active stages is larva stage and adult
- The dormant stage is pupa stage
- The dangerous stage is the adult stage because it spreads diseases.
- Culex mosquitoes spread *elephantiasis*
- The breeding areas of mosquito is stagnant water

Activity

1. Name the three types of mosquitoes.
2. What name is given to the larva stage of a mosquito?
3. Which stage of a mosquito is dangerous?
4. Write down one diseases spread by culex mosquitoes to humans.
5. Complete the table below

Mosquito	Disease	Germ
culex	_____	_____
anopheles	_____	_____
aedes/tiger	_____	_____

6. Which germs cause malaria?

Diseases spread by mosquitoes (mosquito borne diseases)

- Malaria
- Elephantiasis
- Yellow fever

Malaria

- It is caused by plasmodia germs
- It is spread by infected female anopheles mosquitoes

How it spreads

- Malaria spreads through bites of infected female anopheles mosquitoes

Signs and symptoms of malaria

- Headache (symptom)
- Joint pain (symptom)
- Stomachache (symptom)
- Vomiting (sign)
- Body weakness (symptom)
- Fever(symptom)

Elephantiasis

- It is caused by filaria worms
- The disease is spread by a culex mosquito
- The disease makes the legs of the victim to swell like those of an elephant.

Vocabulary

- Filarial
- Yellow fever
- Elephantiasis
- Jaundice
- Stagnant
- Swollen feet

Yellow fever

- It is caused by a virus
- It is spread by an aedes / tiger mosquito.

symptoms

- headache
- backache

Ways of controlling diseases spread by mosquitoes

- Sleeping under treated mosquito nets
- Spraying using insecticides

- Slashing tall grass around homes
- Draining stagnant water
- Closing doors and windows in the evening
- Keeping fish in ponds to eat the mosquito larvae

Activity

1. What causes yellow fever?
2. Identify any two signs of a person with elephantiasis.
3. Name the diseases spread by these mosquitoes.
 - a. Culex mosquitoes
 - b. Aedes / tiger mosquito
4. Suggests three general ways of controlling diseases spread by mosquitoes.
5. Apart from culex and aedes, name one other types of mosquito.

TSETSE FLIES

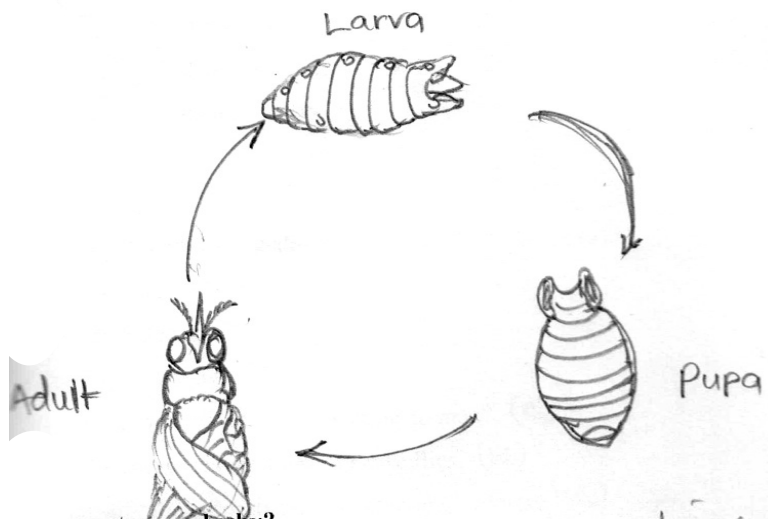
Vocabulary

- Maggot
- Tsetse fly
- Hatches
- Bush
- Buries
- Insecticides
- Metamorphosis

TSETSE FLIES

- They spread sleeping sickness in man and nagana in farm animals.
- They feed on human and animal blood.
- They live in dark and shady places
- Tsetse flies do not lay eggs but they undergo four stages of development.
- The eggs hatch directly into larva in the female's abdomen.

LIFE CYCLE OF A TSETSE FLY



Dangerous stage and why?

Adult because it spreads sleeping sickness and nagana diseases.

Breeding areas of tsetse flies.

- Dry sandy soil
- Under dry leaves

Feeds for tsetse flies

- Blood for female tsetse flies.
- Plant juice and *nectar* for male tsetse flies.

Diseases spread by tsetse flies

- Sleeping sickness (to people)
- Nagana (to cattle - *goats and sheep*)

Sleeping sickness

- It is caused by protozoan germs called trypanosomes.
- It is spread through bites of a tsetse fly

Symptoms of sleeping sickness

- Fever
- Body weakness

- Loss of appetite

Prevention of tsetse flies

- Spraying with insecticides
- Using tsetse fly traps
- Clearing bushes
- Avoid grazing animals very early and late.

Activity

1. Name the following stages of development of a tsetse fly
 - a. active stage
 - b. Dormant stage
 - c. Dangerous stage
2. How is adult tsetse fly dangerous to man?
3. State two breeding areas of tsetse flies.
4. Identify the germ that causes sleeping sickness
5. State two ways of preventing tsetse flies.
6. Why is it dangerous to graze animals very early or late?

COCKROACHES

Vocabulary

- Cupboard
- Cracks
- Nymph
- Dysentery
- Typhoid
- Egg case
- Incomplete
- Dark
- Corners

Cockroaches undergo incomplete metamorphosis

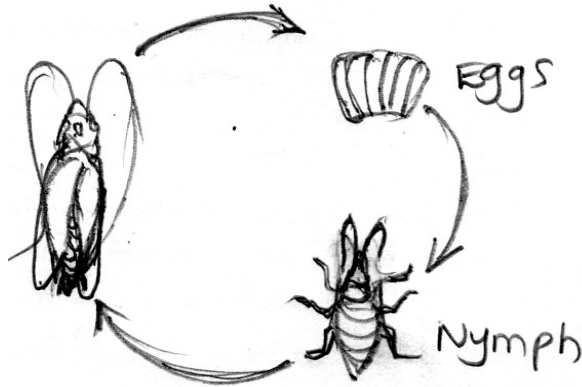
Stages of incomplete metamorphosis

- Eggs - the egg case of a cockroach is called **ootheca**.
- Nymph

- Adult

Cockroaches spread many diseases because of their hairy bodies.

LIFE CYCLE OF A COCKROACH



Active stage – nymph

Dangerous stage – adult stage because they *eat* spread diseases to man

Breeding areas of a cockroach

- Breeding areas of a cockroach
- In the cupboards
- In boxes
- In books shelves
- In latrines

Why do cockroaches move at night?

- To look for food and water

Diseases spread by cockroaches

- Polio
- Dysentery
- Typhoid

Dangers of cockroaches at home

- They spread diseases

- They destroy papers and books
- They destroy furniture

Prevention and control of cockroaches

- Spraying using insecticides
- Allow much light in the room /house
- Clean all dirty dark places.

Activity

1. How is a cockroach able to spread disease?
2. Name the stages of development in the life cycle of a cockroach.
3. How can we control cockroaches at home.
4. Identify two places where cockroaches live.
5. Apart from dysentery, name another disease spread by cockroaches.

RABID DOGS

- Dogs are kept at home as pet animals

Diseases spread by dogs.

- Rabies is spread by infected dogs when they bite someone.

Signs of rabies

- A person becomes wild and mad.
- A person barks like a dog after 6 months

Prevention and control

- Vaccinate dogs
- Kill mad dogs
- Avoid playing with mad dogs

TICKS

- Ticks are commonly found on bodies of wild and domestic animals

Feeds of ticks

- Blood of man and animals

Diseases spread

- The ticks spread the germs that cause **relapsing fever**

ITCH MITES

- Itch mites spread a worm which lives and multiplies inside our skins

Diseases spread by itch mites

- Scabies

Signs of scabies

- Itching and scratching on the skin

FLEAS

Fleas living on man bite him causing irritation, pain and scratching but don't spread any disease.

The fleas that live on rats are called rat fleas.

- The diseases that is spread by rat fleas is called bubonic plague

Signs of bubonic plague

- Swelling in the neck, armpits and groin

Prevention of bubonic plague

- Kill the rat / poison the rats / trap them
- Spray with insecticides to kill fleas.
- People should take an anti – plague vaccination

LICE

Types of lice

- Body lice
- Hair lice
- Crab lice (found on pubic hair)

Diseases spread by lice

- Typhus fever

Prevention of lice

- Observe personal hygiene
- Cut off infected hair
- Use fine combs to remove the eggs and dead lice

BEDBUGS

- Bed bugs are not vectors
- They just suck blood from human beings
- Their bites lead to skin irritation

Breeding places for bed bugs

- Cracks of walls and floor
- Furniture
- Beddings
- The bed

Dangers of bedbugs to man

- Causes irritation

Prevention of bedbugs

- Pour hot water in beds to kill eggs
- Spray cracks of walls and floor with insecticides regularly
- Wash and iron beddings regularly

Activity

1. What do fleas found on rats spread?
2. Why do we pour hot water in beds?
3. Mention three types of lice
4. How is the habitat of a bed bug similar to that of a cockroach?

Topical revision questions

1. What is a vector?
2. Name atleast four common vectors and diseases they spread.

3. Which organ is attacked by trachoma.

Below is a summary of vectors with their diseases complete it carefully.

Name of Vectors	Body parts	Number of legs	Diseases	Cause	Control
Mosquito / culex	3	_____	Elephantiasis	_____	_____
Anopheles	_____	6	_____	Plasmodium	_____
Aedes	3	_____	_____	_____	_____
Cockroach	_____	6	_____	Shigella	_____
Housefly	_____	_____	Diarrhoea	_____	_____
Tsetse fly	_____	_____	Diarrhea	_____	Trypanosomes
Tick	_____	8	Relapsing fever	_____	_____
Mites	2	_____	_____	_____	_____
Tsetse fly	_____	_____	Sleeping sickness	_____	_____
Fleas	3	6	_____	_____	_____
Lice	_____	_____	Typhus fever	_____	_____

SUMMARY OF YOUNG ONES OF DIFFERENT VECTORS

VECTOR	YOUNG ONE
House fly	maggot
Cockroach	nymph
Tsetse fly	maggot
Mosquito	wiggler

THEME : HUMAN HEALTH

TOPIC : ACCIDENTS AND FIRST AID

Vocabulary

- Choking
- Poisoning
- Vomiting

- Scald
- Injury
- Happening
- Zebra crossing
- Sudden
- Casualty

An accident is a sudden happening that causes harm to the body.

Common accidents

- | | | |
|-----------------|---------------------|-----------------|
| - choking | - poisoning | - fainting |
| - drowning | - electricity shock | - nose bleeding |
| - near drowning | - animals bites | |

Causes of accidents

- Burns – dry fire, heat like hot metal, hot charcoal, hot plate, hot saucepan.
- *Scald* – et heat like hot tea, hot porridge, hot milk, hot soup, steam
- Bites – snakes, dogs, cats
- Fainting – lack of enough supply of blood to the brain
- Drowning – lungs are full of water so they are unable to take in oxygen
- Shock – electricity

Accidents at home

- | | |
|--------------------|----------------|
| - Nose bleeding | - Fainting |
| - Poisoning | - Animal bites |
| - Near drowning | |
| - Burns and scalds | |

Causes of accidents at home

- Water in basins or big containers like buckets around the compound, swimming pools, pounds etc
- Playing dangerous games
- Careless keeping of objects
- Fighting
- Touching naked electric wires
- Playing with fire

Accidents at school

- Burns and scalds
- Fainting
- Electric shock
- Near drowning

Causes of accidents at school

- Playing with hot porridge and *tea*.
- Playing dangerous games
- Careless running
- Climbing walls and fences
- Playing with naked electric wires

Accidents on roads

- Animal bites
- Fainting
- Nose bleeding

Causes of road accidents

- Playing on roads
- Crossing the road carelessly
- Grazing animals on the roads
- Failure to follow road signs

ROAD TRAFFIC ACCIDENTS

These are accidents that happen to road users. e.g. drivers, passengers, pedestrians

Pedestrians:- are people who walk along the road.

Drivers:- are people who drive vehicles

Passengers:- people who are carried in vehicles.

Causes of road traffic accidents

- Driving vehicles at a higher speed.
- Driving vehicles which are not in good working condition.
- Driving over loaded vehicles.

- Failure to respect road signs.
- Abuse of high way traffic code by drivers.
- Crossing the road carelessly.
- Bad roads with potholes.
- Traffic jams
- Grazing animals along the road
- Driving while drunk.

Prevention of road traffic accidents.

- Control speed while driving.
- Avoid driving vehicles under dangerous mechanical condition
- Respect the road signs.
- Avoid driving while drunk.

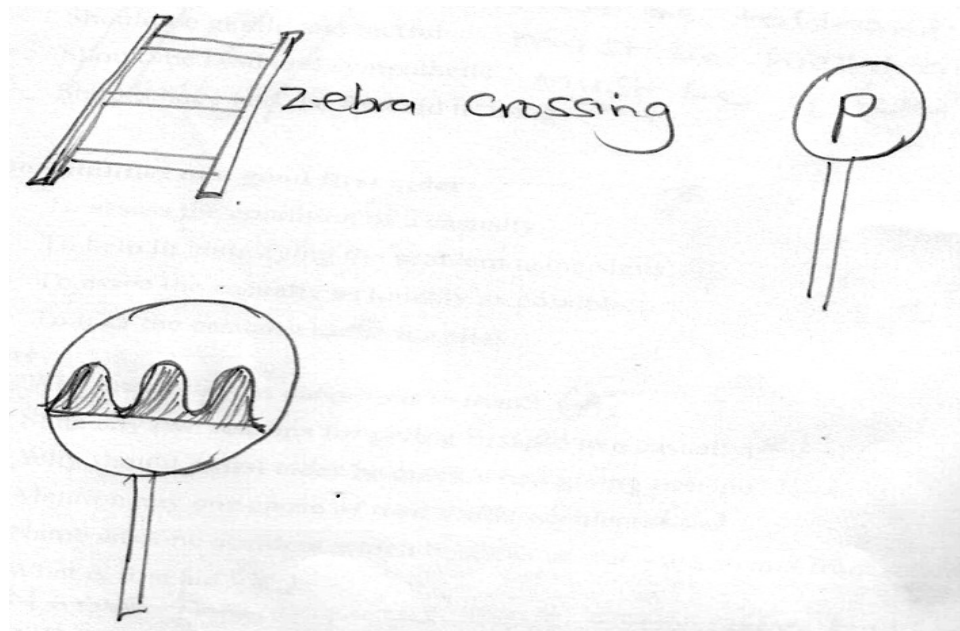
Crossing the road

- First stop at the road
- Look right, look left, look right again
- If the road is safe cross quickly but don't run because you may fall in the middle of the road.

Activity

1. Define the following:-
 - a. Passengers
 - b. Pedestrians
 - c. motorist
 - d. Road traffic accidents
2. Outline three causes of road traffic accidents
3. Mention three ways of controlling the accidents mentioned above.
4. Name any two colours of traffic lights.

COMMON ROAD SIGNS



FIRST AID

First aid is the first *help* given to a casualty before being taken to the hospital.

A casualty is a person who has been injured and needs help (first aid)

A first aider is a trained and qualified person who gives immediate help to a casualty

Why we give first aid

1. To save life To reduce pain
2. To promote quick recovery
3. To stop or reduce bleeding if any
4. To prevent the condition from becoming worse
5. To give hope to a casualty

Qualities of a good first aider

- Must be observant
- Must be tolerant
- Must be well trained
- Must be quick to make decisions

Responsibilities of a good first aider

- To assess the condition of a casualty.
- To help in identifying the problem using signs.

- To assist the casualty as quickly as possible.
- To take the casualty to the hospital

Activity

1. Why are accidents dangerous to man?
2. State any two reasons for giving first aid to a casualty.
3. Why should a first aider be quick when giving first aid?
4. Mention any one cause of road traffic accidents.
5. Name any one accident which happens on our ways to and from school.
6. What is first aid?
7. Name two injuries that can affect us in life.

FIRST AID BOX

This is a wooden or plastic box made to keep first aid items.

Places where the first aid box is found.

- Office
- Vehicles
- Homes
- Clinics
- Hospitals
- Schools
- Red Cross centers.

A first aid box has shelves in it.

Its painted white with a red cross in the centre.

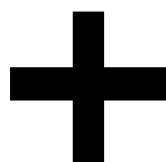
TYPES OF CROSSES

1. Faith cross

Illustration



2. Health cross



Items in a first aid kit and their uses

1	Cotton wool	- For cleaning wounds
2	Razor blade	- Cutting the plaster - Shaving hair from a wound
3	Pair of scissors	- Cutting a plaster bandage, gauze or a piece of cloth
4	bandage	- Holding fractured bones in position - Wrapping a sprained Joint
5	Safety pins	- For pinning a bandage
6	Adhesive plaster	- Covering small cuts or wounds
7	Iodine solution	- To clean wounds - To kill germs on wounds
8	Tweezers	- For picking up small objects from wounds - Used for holding cotton wool when cleaning the wound
9	Cotton gauze	- To protect wounds - To absorb fluids from scalds
10	Spirit	- Killing germs from wounds - Cleaning or disinfecting wounds

How to use first aid kit

- Clean the hands with water and soap before touching them
- All drugs should be well labeled
- Never use dirty things or expired *drug*
- Use clean sterilized things

Uses of first aid box

- It helps to keep drugs and instruments safely
- Instrument and drugs are protected from sunlight and germs.

Types of injuries / accidents

- Fractures
- Burns and Scalds

- Dislocation
- Sprains and Strains
- Snake bites
- Insect stings

Activity

1. What is first aid?
2. Why are casualties always given first aid?
3. How is a first aid kit different from a first aid box?
4. In the space below, draw equipment used to clean wounds.
5. In which way is a zebra crossing useful to road users?

FRACTURES

A fracture:- s a broken or cracked bone.

Types of fractures

- Simple fracture
- Compound fracture
- Green stick fracture
- Comminuted fracture

- **Simple fracture:-** Is when a bone breaks and remains inside the skin.
- **Compound fracture:-** Is when the bone breaks and comes out of the skin. It pierces the flesh over laying the skin.
- **Greenstick fracture;-** Is when the bone doesn't break completely, part of it remains attached. Its common in young children with soft growing bones.
- **Comminuted fracture:-** is when the bone breaks into many pieces.

- **Illustrations**

Signs of fractures

- The fractured part swells
- Inability to walk well

Symptom

- Feels pain

First aid for fracture

- Tie with splints to immobilize the broken bone.
- The splints can be made from pieces of wood or broken branches of trees.

Why splints are used?

If a casualty *can't* walk, make a stretcher and take him or her to the hospital.

Note: Don't attempt putting the bones back to their position for this can make the condition worse.

SPRAIN, STRAIN AND DISLOCATION**Vocabulary**

- Injury
- Muscle
- Torn
- Over twisted
- Ligament
- Dislocation

Symptom

- Pain at the injured part.

A sprain:- Is a torn or stretched ligament.

A strain:- Is a torn or stretched muscles

A dislocation:- Is when a bone is displaced from its joint

Signs of a sprain, strain and dislocation

- Swelling around the injured part
- Pain at the point of injury
- Difficulty on moving the limb.

First aid for sprain

- Keep the joint in a resting position
- Wrap a piece of ice and apply on the sprained joint
- Tie the joint firmly with a bandage.

POISONING

Poisoning:- Is the state of eating or drinking things that harm our bodies or even cause death.

Poison:- Are the things that cause harm to our bodies or death when eaten or drunk.

Examples of poison

- paraffin
- Jik
- Rat poison
- Drugs (medicine)
- Expired foods

Causes of poisoning

- Eating or drinking drugs (medicine) in large amounts
- Keeping drugs carelessly where children can get them.
- Children tend to mistake poison to be soft drinks.

Activity

1. What is poisoning?
2. Define poison
3. Mention three things that may cause poisoning

First aid for poisoning

(paraffin, petrol, Jik or diesel)

- Give plenty of milk or water to drink

Why do we give plenty of water or milk?

- To dilute the poison
- The water or milk makes the poison harmless to the body

Note: Don't let that person who has taken poison to vomit

Why?

- Vomiting causes more harm to a person

Prevention of poisoning

- Keep poison out of reach of children
- Avoid taking over dose
- Avoid eating expired packed food.
- Covering the mouth and nose when spraying insecticides

Activity

1. Name two ways of controlling poisoning by chemicals in a home
2. Give two ways of preventing snake bites.
3. How can insecticides be prevented from entering the nose and mouth when spraying?
4. Why is it dangerous to keep poison in soda bottles?
5. Mention one examples of poison.
6. Why do we give as person poisoned milk to drink?
7. Why should a poisoned victim not be forced to vomit?

End of topic revision questions

1. State some three causes of road and traffic accidents
2. Give the meaning of these colours of traffic light
 - a. Red
 - b. Orange
 - c. Green
3. How is a zebra crossing important to road users?
4. Write down steps to follow before you cross the road.
5. Why are drugs kept out of children's reach?
6. List down any three things in a first aid box.
7. What is the first aid for a simple cut?
8. Of what use are splints to fractured person?
9. Give a difference between a burn and a scald.
10. Cite one accident that can occur at school.

Introduction

- Ask learners to name common domestic animals, products, uses
- Tell learners about rabbit keeping as a project.

RABBIT KEEPING

Rabbit keeping:- is the rearing of domestic rabbits

- A male rabbit is called buck
- A female rabbit is called doe
- A group of young rabbits born together at the same time by a doe.
- A young rabbit is called a *kit*
- The meat of a rabbit is called rabbit meat.

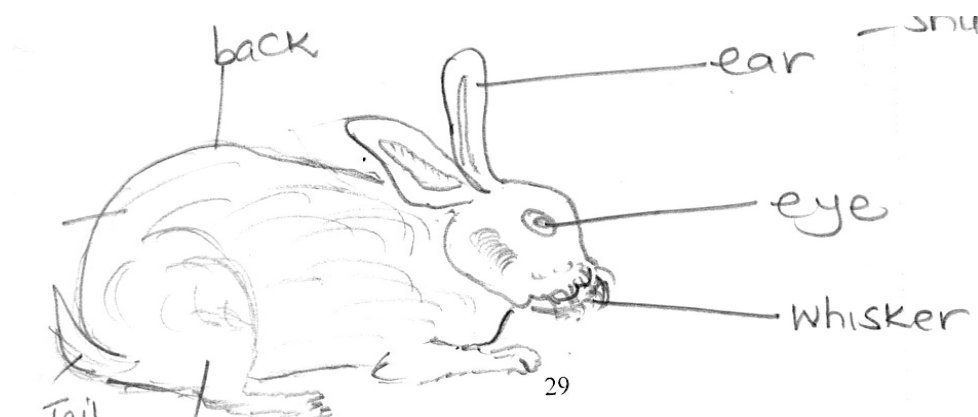
Why do we keep rabbits?

- They provide us with meat
- They provide us with skins used to make hats, shoes, hand bags.
- Their droppings is *used* as manure
- They provide us with *fur*.

Vocabulary

- Hutch
- Marrant
- Doe
- Kit
- Litter
- Whister
- Fur
- Pneumonia
- Ear canker
- Snuffles

THE STRUCTURE OF A RABBIT



ADVANTAGES OF KEEPING RABBITS

- They feed on many things which other animals don't feed on.
- They produce quickly than other animals.
- They need very small space for keeping them unlike other animals
- They produce high soft quality meat than other animals two points
- They are cheap to buy and keep than other animals
- Mature quickly than other animals.

Breeds of rabbits

- Local or indigenous rabbits
- Exotic or foreign rabbits

Characteristics of local rabbits

- They have many different colours
- They are smaller than exotic rabbits
- They live in the bush
- They are just hunted in order to be go
- They grow slowly
- They dig holes in the ground where they produce from

Characteristics of exotic rabbits

- They have the same colour
- They produce the same quality and quantity of meat
- They have same weight and size
- They are simple and easy to get
- They produce you ones of the same habits like their parents.

Examples of exotic breeds of rabbits

- Newzealand white
- California rabbits
- chinchilla rabbits
- Earlops
- Angora rabbits

HOW THE EXOTIC RABBITS LOOK LIKE

Newzealand white rabbits

- They are white.
- They have short legs
- They produce a lot of meat
- They have pink eyes
- They can reach 5kgs when mature

California rabbits

- White in colour, the tail nose and feet are black or dark brown.
- They grow faster than other rabbits
- They weigh 5kg when mature.

Chinchilla rabbits

- They are grey in colour
- They are lighter compared to Californian
- They are *used* for upgrading local rabbits

Angora rabbits

- They are white in colour
- They produce fine silky hair
- They produce good quality meat

Earlops

- They are bigger than other rabbits
- They weigh 6kgs when mature
- Their ears drop on the side of the head
- They grow slowly.

Selecting good rabbits to rear

- Select healthy rabbits with shiny coat, bright eyes a dry clean nose and without any discharge from the eyes.
- Select a rabbit that is well covered with hair and well shaped.

- Select rabbits that are big in size.

HOUSING OR RABBITS

A house of rabbits is called a pen or hutch.

It should be kept clean and dry protected from wind, sunshine and enemies

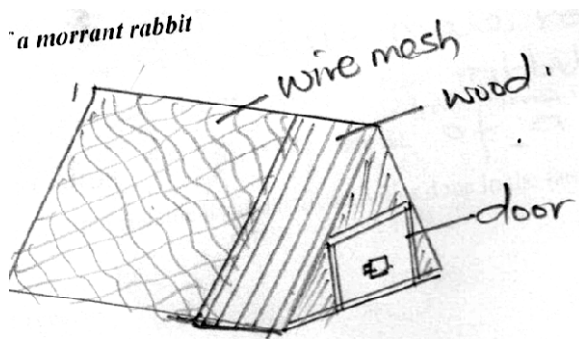
Hutches or pens should be raised off the ground to protect them from dogs

Rabbitary:- Is the keeping of rabbits in many hutches in one place.

Type of rabbit hutches

- Modern cages – water
- Wire mesh cages
- *Amorrant* (moved from one place to another to allow than feed on grass)

Diagram of a morrant rabbit



Feeding rabbits (what they feed on)

- Green grass
- Sweet potato vines (leaves)
- Banana peelings
- Carrot peelings
- Potato peelings
- Green leafy vegetables
- Different types of weeds.
- They can also be fed on commercial feeds like oats, bran, flaked maize, fishmeal, rabbit called pellets
- Water is also necessary for rabbits
- They should also be given a block of salt to link to get mineral salts.

Breeding of rabbits

Breeding is when a female rabbit (doe) produces young ones after mating with the male one (a buck)

A buck mounts the doe to mate and produce young ones.

Note

Doe- an adult female rabbit

Buck – an adult male rabbit

Litter – a group of rabbits born by a doe at the same time.

Kit – a young one of a rabbit.

FARM RECORDS

Record are written statements about all activities done in the farm.

Types of records

- Breeding records
- Feeding records
- Production records
- Healthy records

Importance of keeping records

- To know the number of rabbits on a farm.
- To know the amount of money spent.
- To know whether you are making profits or loss.
- To be able to plan for the rabbits

Format of breeding record

- Hutch number
- Breed
- Date of birth
- Doe's name

Date mated	Buck's name	Date of given birth	No born	Date of weaning

Signs of healthy rabbits

- They are bright and observant
- They are smooth and have shiny hair
- They have clean nose
- They are quick in movement and alert
- Their dung is in form of firm pellet

Common diseases of rabbits

- Coccidiosis
- Ear canker
- Sours
- Colds
- Pneumonia

DISEASES OF RABBITS

- Coccidiosis
- Ear canker
- Sours
- Pneumonia
- Colds
-
- **Pneumonia** is common to people
- **Coccidiosis** is common to poultry

Signs and symptoms of coccidiosis

- A rabbit develops diarrhoea with blood
- A rabbit has swollen stomach
- Rabbits become small and thin
- They have rough hair

Prevention of coccidiosis

- Keep the hutch clean
- Feed with clean water and feeds
- Put drugs in clean drinking water

Signs and symptoms of sours

- The rabbit stops feeding.
- Pain in the stomach
- Diarrhoea

Prevention of sours

- Don't give rabbits young and wet greens and grass
- Clean the hutches and spray regularly.

Ear canker (signs and symptoms)

- The rabbits itch and scratch their ears.
- The ears develop wounds and discharge and become painful.

Prevention of ear canker

- Pour paraffin on cotton and clean the ears regularly.
- Avoid overcrowding the rabbits in one hutch.

Signs and symptoms of pneumonia

- Rabbits start shivering
- Difficulty in breathing
- Lack of appetite
- High temperatures

Prevention of pneumonia

- Keep the hutches dry and clean.
- Avoid rain into the hutches.
- Treat with drugs

Signs of colds

- Water discharge from the nose and sneezing

Prevention of diseases in rabbits

- Keep the hutches clean.
- Avoid rain into the hutches.
- Keep sick rabbits away from normal ones.
- feed rabbits well with greens
- Avoid overcrowding rabbits
- Call a veterinary doctor to check on their health

End of topic revision questions

1. Name four external parts of a rabbit
2. Write down two uses of rabbits to people
3. Name the type of rabbits to people
4. Name the type of rabbits that mature faster
5. Match items in A with their correct answers in B.

A

Doe

Buck

Litter

Breeding

B

Mating of a buck with a doe to produce young ones

Young rabbit

Male rabbit

Female rabbit

6. Why do we keep rabbits in a clean hutch?
7. Write down the common sign of a disease and pest on rabbits.
8. Why do we keep rabbit records?
9. Which way can we control diseases and parasites in rabbits.
10. Name one rabbit feed.