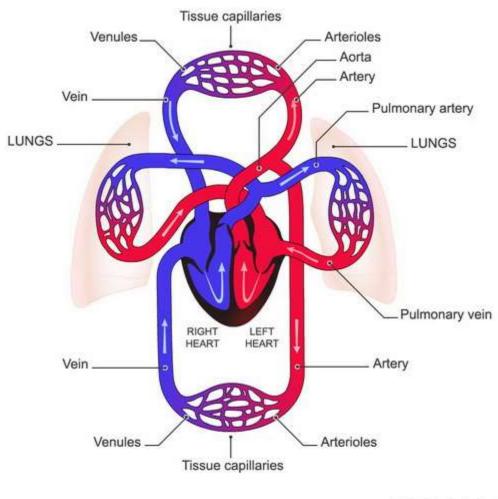


CRE LESSON NOTES TERM 1 2024 0730243415/0705225627



PRIMARY SIX SCIENCE LESSON NOTES FOR TERM ONE 2024



THEME: THE WORLD OF LIVING THINGS
TOPIC: CLASSIFICATION OF ANIMALS

Living things

• Living things are things that have life.

Main groups of living things.

- Plants
- animals

Examples of living things;

- Plants
- Insects
- Birds

Characteristics of living things

- a) Living things respire.
- b) Living things feed.
- c) Living things respond to stimuli.

- Human beings
- Worms etc.
 - d) Living things grow.
 - e) Living things reproduce.
 - f) Living things excrete.
 - g) Living things move

Classification of living things

• Classification is the grouping of things according to common characteristics and features.

Common characteristics and features used in classification of living things.

- 1. Number of legs
- 2. Ways of breathing
- 3. Response to stimuli
- 4.Colour
- 5.Size
- 6.Body divisions

- 7. Ways of movement
- 8. Hair on the body
- 9.Shape
- 10. Adaptation to the
 - environment
- 11. How they get food.

Reasons for classifying living things

- Makes it easy for us to identify them.
- Makes it easy to name them.

Note

Living things are classified into five groups called kingdoms

- Animal kingdom
- Plant kingdom
- monerans

- Fungi kingdom
- protoctista

kingdom(prototists)

1. Animal kingdom

Characteristics of animals

- Animals are multicellular.
- Animals cannot make their own food because they do not have chlorophyll
- They feed on already made food.
- Animal cells have a cell membrane.

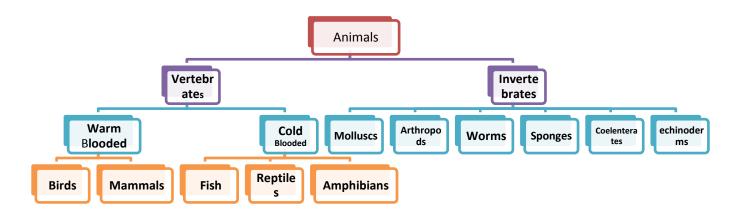
Differences between plants and animals

Plants	Animals	
o Make their own food	o Feed on already made food.	
 Green plants contain 	 Don't have chlorophyll 	
chlorophyll	 Growth occurs equally on all 	
 Growth occurs only at the tips 	parts of the body	
of roots and shoots	 React quickly to external 	
 React slowly to stimuli 	stimuli	
 Continue growing throughout their life 	 Stop growing long before their death 	

Animals are divided into two major parts.

- Vertebrates
- Invertebrates

Classification of animals



Vertebrates:

• Vertebrates are animals with backbones.

Characteristics of vertebrates

- They have an Endo (internal) skeleton.
- They have a large brain protected by the skull (cranium).
- They have back bones.

NB: Vertebrates are also grouped into two;

- Warm blooded (homoeothermic or homoeothermic)
- Cold blooded (poikilothermic)

Warm blooded (homoeothermic)

- Are animals that have a constant body temperature.
 - ✓ Mammals
 - ✓ Birds

Cold blooded (poikilothermic)

- Are animals whose body temperature changes according to the surrounding.
 - ✓ Fish
 - ✓ Reptiles
 - √ Amphibians

1. Mammals

- Mammals are groups of vertebrates with mammary glands.
- Mammary means breasts.

Characteristics of mammals

- They are warm blooded.
- Their bodies are covered with fur: **prevent heat loss from the body.**
- All mammals care for their young ones.
- They give birth to live young ones except the egg laying mammals.
- They feed their young ones on milk from their mammary glands.
- They breathe through lungs.
- They have well developed ear lobes (Pinnae).
- Their hearts are divided into four chambers.
- They undergo internal fertilization.
- They haveteeth which differ in shape and function (heterodontdentition).

Main characteristics of mammals.

- They give birth to live young ones.
- Their bodies are covered with fur.
- Have mammary glands.

Groups of mammals

- Primates (flexibly fingered mammals)
- Cetaceans (sea mammals)
- Carnivores (flesh eating mammals)
- Ungulates (hoofed mammals)
- Rodents (gnawing mammals)

- Marsupials (pouched mammals)
- Insectivores (insect eating mammals)
- Chiroptera (flying mammals)
- Monotremes (egg laying mammals)

A. Primates

- Primates are mammals with a well-developed brain.
- Primates are the most advanced group of mammals.

Characteristics of primates

- They have a well-developed brain.
- They have five fingers on their hands and five toes on their feet.
- They have five fingers on each hand and five toes on each foot.
- They are omnivores i.e. feed on both meat and vegetation.
- They use front limbs for holding and hind limbs for walking.
- They have four sets of teeth.

Examples of primates

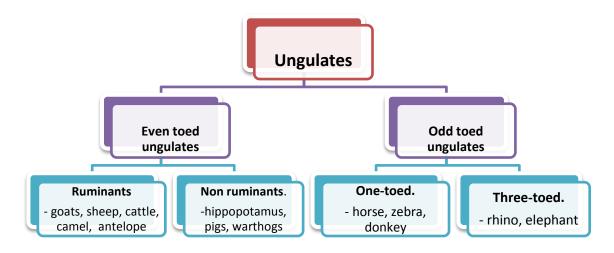
- Man
- Gorilla
- Baboon

- Monkeys
- Bush baby
- Chimpanzee

B. Ungulates (hoofed mammals)

- ➤ Are hoofed mammals that feed on vegetation.
- > They are herbivorous mammals.

Classification of ungulates



Even toed ungulates

• Are animals whose toes are in even numbers.

Groups of even toed ungulates.

- Ruminants
- Non-ruminants

Ruminants.

Are ungulates that chew cud and have four chambered stomachs.

Non-ruminants.

• Are ungulates that have a single stomach and do not chew cud.

C. Carnivores (flesh eating mammals)

- They are mammals which feed on flesh (meat).
- They are also called **preying mammals**.

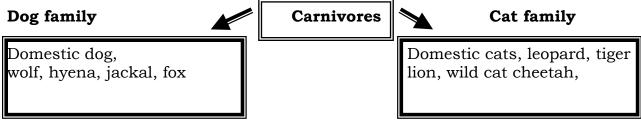
Characteristics of carnivores

- They have long stout legs: for running very fast.
- They have well-developed canines for **tearing flesh**.
- They have strong curved claws for **grabbing grey**.
- They have a very good sense of smell.
- They have good eye sight.
- They have soft pads in their feet to move softly.

NB: Carnivores are sub-divided into two groups namely;

- Cat family: resemble cats.
- Dog family: resemble dogs.

Classification of carnivores



Note:

- Some carnivores (dog family) are scavengers e.g. the hyena and jackals.
- Others are predators (cat family). They hunt and kill prey.

D. Rodents (gnawing mammals)

- Have well developed incisors for biting even hard surfaces.
- They produce many young ones at once.
- Most rodents feed on vegetables.
- They have strong claws for digging the ground.
- They are called gnawing mammals, because they use their incisor teethto bite hard surfaces to keep them short.

Examples of rodents

- Rats
- Porcupines
- Guinea pigs

- Squirrels
- Mice
- Hare

NB. Porcupines have spines for protection.

E. Insectivores (insect eating mammals)

These are mammals which feed on insects.

Characteristics of insect eating mammals

- They have a high sense of smell.
- They have strong claws for digging the ground to get food.
- They mostly hunt at night.
- Have sticky tongues for catching insects.
- Have long snouts.

Examples of insect eating mammals

hedgehog,

• moles

antbears

NB A hedgehog has spines on its body for protection.

F. Chiroptera (flying mammals)

• They are mammals that move by flying.

Characteristics of flying mammals

- Their fore limbs are modified into wings.
- They are nocturnal.
- They can find their food at night using echoes.
- They give birth to live young ones.
- Have mammary glands.

NB: Bats are the major examples of flying mammals. Moths, hedgehogs are other examples of nocturnal animals.

Types of bats

- a) Fruit eating bats
- b) Insect eating bats
- c) Blood sucking bats.

G. Marsupials (pouched mammals)

- Marsupials are mammals with a pouch.
- Pouch is used to carry its young one until it matures.
- Have breasts inside the pouch.

Characteristic of pouched mammals:

• They have a pouch for carrying young ones.

NB: Marsupials are found in Australia and South America

Example of pouched mammals:

- Kangaroo
- Wallabies
- Koala bear
- wombat



H. Monotremes (Egg laying mammals)

- These are mammals which lay eggs.
- Feed their young ones on milk from their mammary glands.

Note:

- They are regarded as the most primitive mammals because;
 - ✓ They have characteristics of reptiles, birds and mammals.
 - ✓ They lay eggs and have beaks similar to those of birds.
 - ✓ They feed their young ones onmilk from their mammary glands.

Examples of egg laying mammals:

- Duck billed platypus
- Spiny ant eater(echidna)





I. Cetaceans (sea mammals)

- Cetaceans are mammals that live in the sea and oceans.
- They have a layer of fats called **blubber** which keep them warm in water.

Characteristics of cetaceans

- They live in seas.
- They breathe by means of lungs.
- Have a high level of intelligence next to primates.

Examples include;

Whales

Dolphins

Seals

otter

walrus

Porpoises

Importance of mammals to man.

- Some ungulates and rodents are a source of food to man
- Some mammals are used for transport.
- Some mammals provide raw materials such as hides and skins, horns and tusks for industries.
- Oxen are used to plough land for man.
- They are tourist attractions
- Some rodents can be used to reduce or kill pests on a farm.

Dangers of mammals

- Some rodents are crop pests.
- Dogs and cats are diseases vectors.

Differences between mammals and birds.

Similarities between mammals and birds.

2. Birds

Characteristics of birds.

- Have streamlined bodies.
- Their bodies are covered with feathers.
- Have scales on their legs.
- They are warm blooded (homoeothermic).
- They breathe by means of lungs
- Their front limbs are modified as wings.
- They reproduce by laying eggs.
- They have four chambered hearts.
- They take care of their young ones.
- They undergo internal fertilization.

Groups of birds

- Swimming birds
- Climbing birds
- Birds of prey
- Perching birds

- Scratching birds
- Wading birds
- Scavenger birds
- Flightless birds

A. Birds of prey

• These are birds which hunt and kill prey.

Characteristics of birds of prey:

- They feed on flesh (meat).
- They have strong eye sight to spot their prey even at a distance.
- They have strong, sharp, hooked beaks for tearing their prey.
- They have strong, sharp curved talons for gripping and killing their prey.
- Do not have a crop in their alimentary canal.

Why?

They feed on already moistened food.

Examples of birds of prey:

- Hawks
- Vultures.
- eagles
- secretary birds
- owls
- kites
- falcons



Structure of the beak and feet



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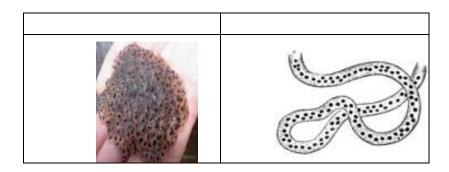


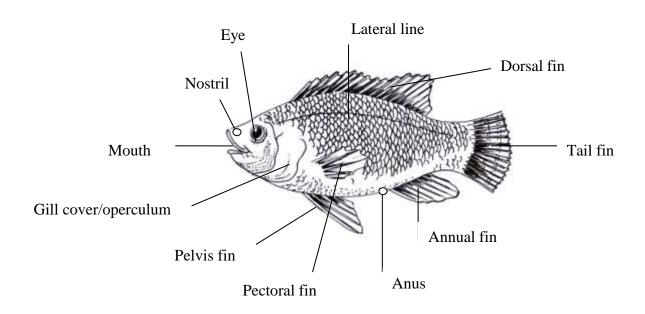


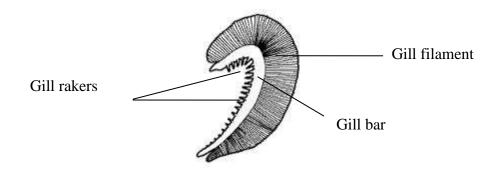


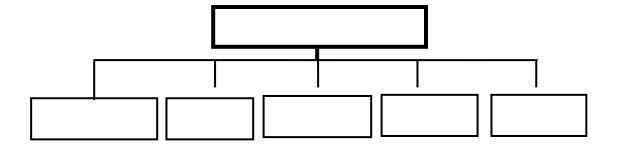


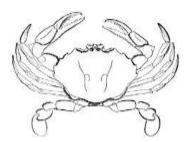








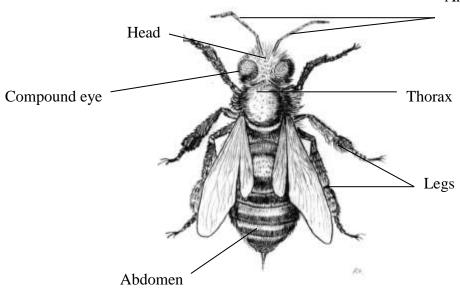


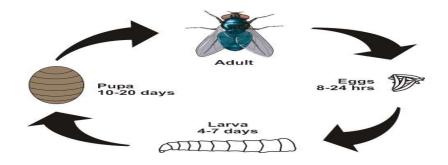


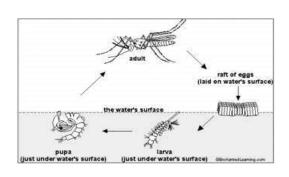




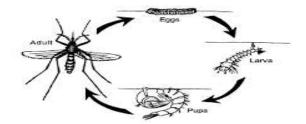
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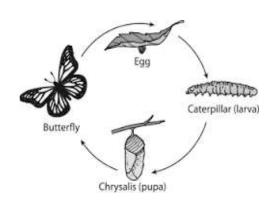


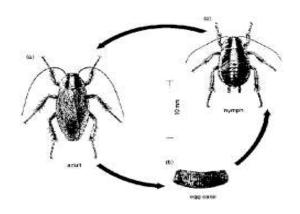


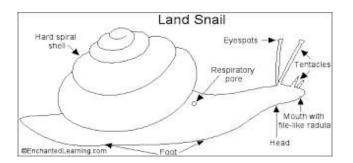


Life Cycle of the Mosquito

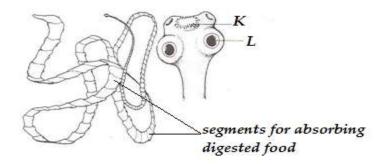


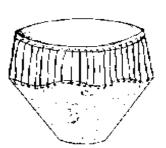




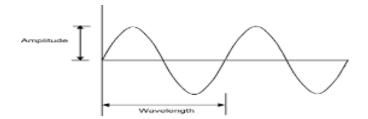


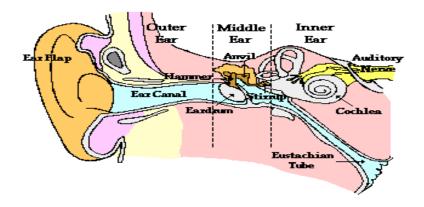


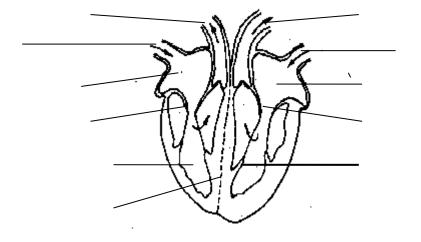


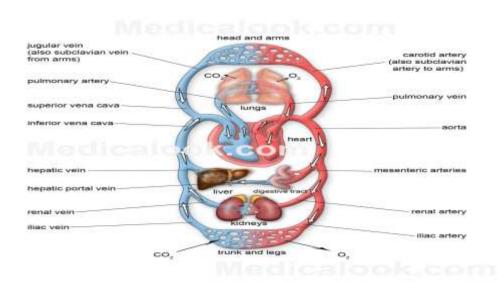


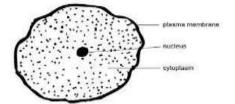


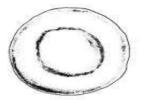


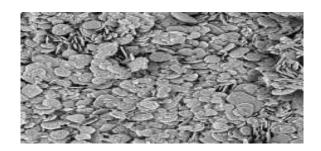


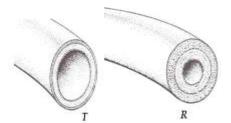


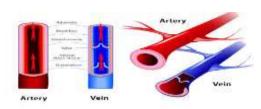


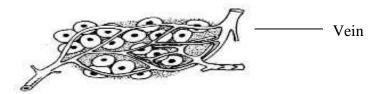












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Artery —	

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