

IVING THINGS and their habitats knowledge organiser



What you should already know...



- -Animals and plants can be classified into different groups based on their characteristics.
- -Animals can be grouped into vertebrates (with a backbone) and invertebrates (without a backbone).
- -They can then be subdivided into further groups, for example mammals, fish, reptiles etc. (vertebrates) or spiders, snails, worms etc. (invertebrates).
- -Plants are commonly grouped into flowering plants and non-flowering plants. They too can be sub-divided beyond these broad classifications.

Linnaeus Classification

Carl Linnaeus

Carl Linnaeus was a Swedish scientist, botanist and zoologist who is known as the 'father of taxonomy.'

He created something called the binomial nomenclature, which was a way of classifying plants and animals (taxonomy).

He classified man among the primates, which brought him criticism at the time!

He was made a noble by the Swedish King. He lived from 1707-1778. Parts of his system are still used today.



Classification System

Linnaeus gave each organism a two part Latin scientific name, based on their genus and species. A genus is a group made up of several species.

For example, the genus 'Pan' is made up of the chimpanzee (pan troglodytes) and the bonobo

(pan paniscus).

His scientific process involved observing, recording the information and making conclusions.

Classification of Animals

M-R-S G-R-E-N

You can remember the seven features of living things by using the acronym MRS GREN (Movement, Respiration,

Sensitivity, Growth, Reproduction, Excretion and Nutrition.			
Mammals -Mammals are warm-bloodedThey often have hair/fur on their bodiesMammals give birth to live youngMammals often drink milk from their mothers.	Bears, Lions, Dogs, Cats, Rabbits, Squirrels, Whales, Monkeys, Horses, Cows, Pigs, Sheep, Tigers, Humans.	Snails -Snails have shellsThey have a large muscular foot, which secretes mucusTheir stomach is directly above their muscular footMost snails live underwater.	Garden Snail, Scutalus, Giant African Land Snail.
Reptiles -Reptiles are cold-bloodedThey normally lay eggs (but some don't)Reptiles have scales or scutes.	Crocodiles, Lizards, Turtles, Chameleons, Snakes, Geckos, Iguanas, Dinosaurs.	Slugs -Slugs do not have shellsThey have a large muscular foot, which secretes mucusTheir stomach is directly above their muscular foot.	Leopard Slug, Black Slug, Yellow Slug.
Amphibians -Amphibians are cold-blooded animalsThey have moist, scaleless skin. It is often permeableAmphibians lay eggs.	Frogs, Salamanders, Toads, Newts, Tadpole.	-Worms -Worms have long, narrow bodiesWorms do not have limbs (arms and legs)They are bilaterally symmetrical (both sides the same).	Flatworms, Round Worms, Segmented Worms
Fish -Fish are cold-blooded animalsFish can breathe underwater, using gillsFish lay eggsFins help to propel fish through the water.	Sharks, Goldfish, Carp, Swordfish, Stingray, Clownfish, Pike, Salmon, Bass, Haddock, Tuna, Cod, Eel, Turbot.	Spiders -Spiders have eight legsSpiders bodies are made of two main partsSpiders create silk from their spinneret glandsSpiders lay eggs.	Tarantula, Wolf Spider, Huntsman Spider, Widow Spider.
Birds -Birds are warm-bloodedBirds have feathers, wings and a beakBirds lay eggs.	Parrot, Owl, Eel, Flamingo, Penguin, Puffin, Chicken, Toucan, Blackbird,	Insects -Insects have exoskeletons: hard shell-like coverings of their body. They also have three main body partsThey have antennae on the top of their heads.	Beetle, Ant, Fly, Flea, Butterfly, Mosquito,

Classification in Local Habitats







Garden

Vertebrates: Mammals = cats, dogs, rabbits, foxes. Birds = sparrow, robin, crow. Amphibians = frogs, toads.

Invertebrates: Insects = bee, wasp, fly, Spiders, Worms = earthworm, Snails = garden snail, Crustaceans = woodlouse.

Seaside

Vertebrates: Mammals = Beach mice, Birds = seagulls, pigeons, Reptiles = sea turtles, Fish = cod, haddock.

Invertebrates: Crustaceans = crabs, lobsters, prawns, Echinoderms = starfish, sea cucumbers, sea urchins.

Forest

Vertebrates: Mammals = badger, deer, squirrel, boar, pine marten. Birds = woodpecker, owl, warbler. Reptiles: adder, lizard, slowworm.

Invertebrates: Spiders: harvestman, woodlouse spider, Insects: Ants, crickets, grasshoppers.

Human Classification – from vague to specific

Kingdom: Animals Phylum: Chordates

Sparrow, Pigeon.



Class: Mammals



Bee, Cricket







Order: Primates Family: Hominids Genus: Homo Species: Homo Sapiens