

Scientists think that there are 7.77 million species of animals in the world, living on the land, in the sky and in the sea.

We have discovered and named about 1.4 million of these...which means that over 6 million species of animal are yet to be discovered!



We have already discovered:

5500 species of mammal

10 400 species of bird

10 000 species of reptile

7300 species of amphibian

33 000 species of fish

1 305 000 kinds of invertebrate

Which kind of creature are we?





When scientists discover a new animal, they give it a name and record everything they know about it.



What kind of information do you think they will record?

Hadogenes troglodytes (Peters, 1861)

Common names:

Often known as South African rock scorpion or the flat rock scorpion.

Distribution:

Africa (Botswana, Mozambique, South Africa, Zimbabwe).

Habitat:

Lives in dry bushveld habitats in rocky areas.

Appearance:

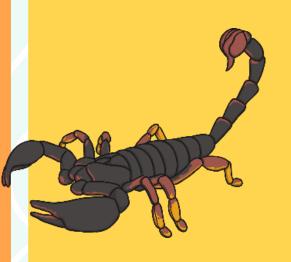
These scorpions have very elongated, flattened bodies and powerful claws.

Venom:

This species has a mild venom. It will rarely sting, and usually defends itself by using the powerful claws.

Latin name

Who discovered it and when

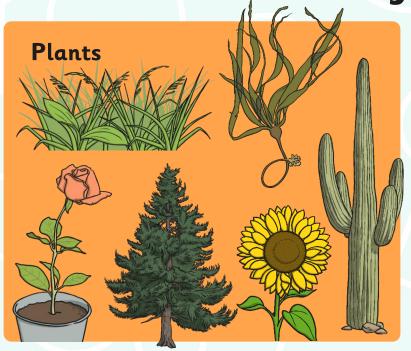


With so many living things to make records of, and so many yet to discover, it is important that we have a system to organise and make sense of the information we have about them.

We organise living things into groups based on their similarities and differences, so that we can learn more about what makes each species unique. The differences between living things is sometimes called **variation.**





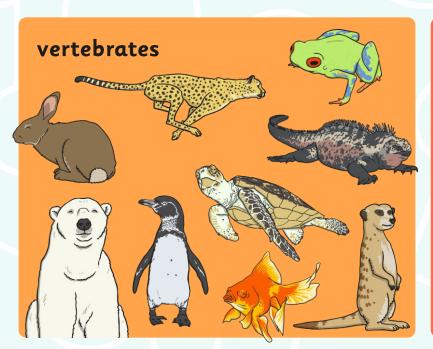


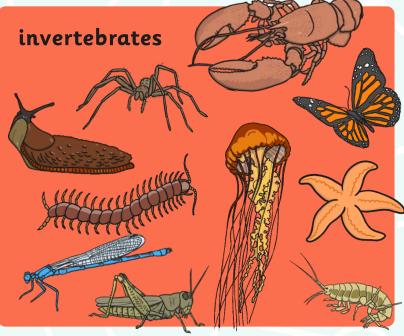


It is easy to sort most of the living things we can see in the world into two groups: plants and animals.

Plants and animals share life processes, but they do them very differently. Can you remember some of the differences between plants and animals?

Animal Groups

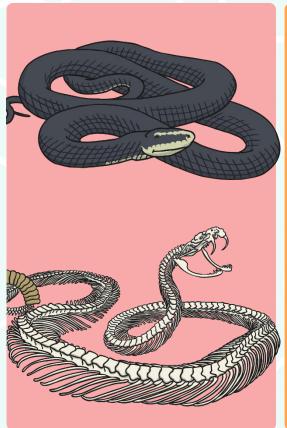


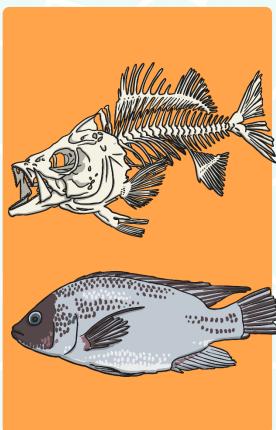


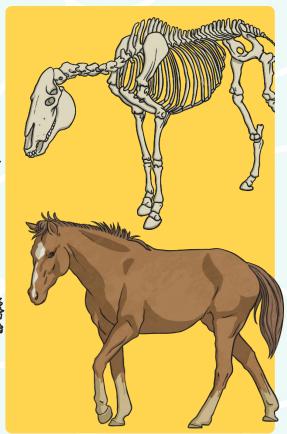
When looking at animals, scientists usually split them into two groups: vertebrates (animals with a backbone) and invertebrates (animals without a backbone).

Animal Groups: Vertebrates

Vertebrates are animals with a backbone. They have a hard skeleton made of bone. It holds their body up and gives them shape.







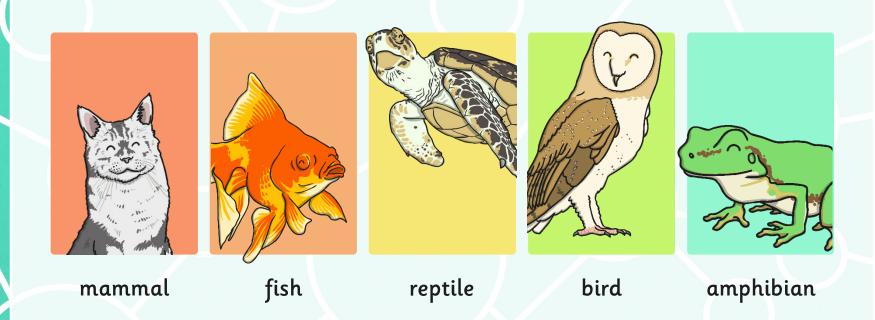
Animal Groups: Invertebrates

Invertebrates do not have a backbone, or a skeleton made of bones. Many have a hard shell outside their bodies to protect them. Others have soft, flexible bodies.



Animal Groups

Vertebrates can be separated into five broad groups:

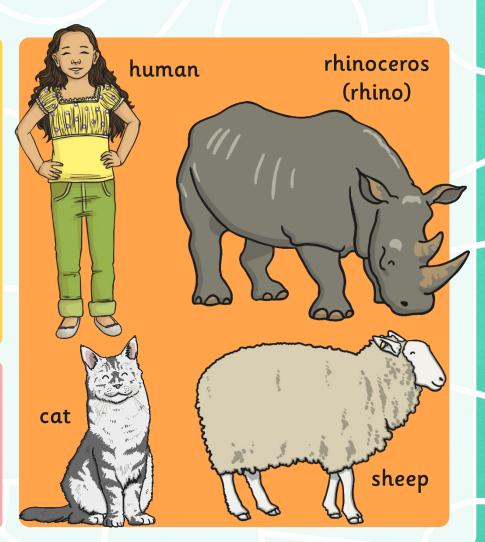


Mammals

Mammals have warm blood, and have hair or fur on their bodies.

Mammal babies are born alive.

The mothers feed their babies milk.



Amphibians

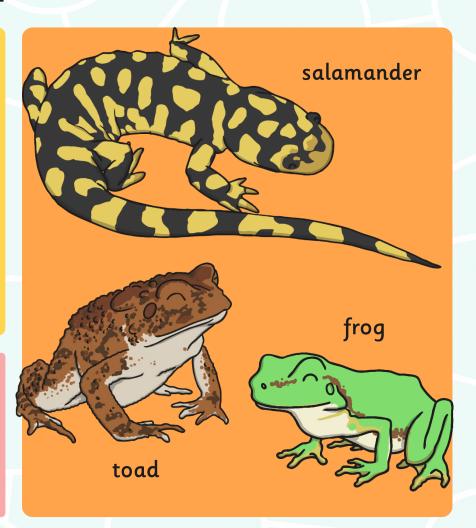
Amphibians live on land and in water.

They are cold-blooded.

They have gills when they are young.

They have smooth skin.

They lay their eggs in water.

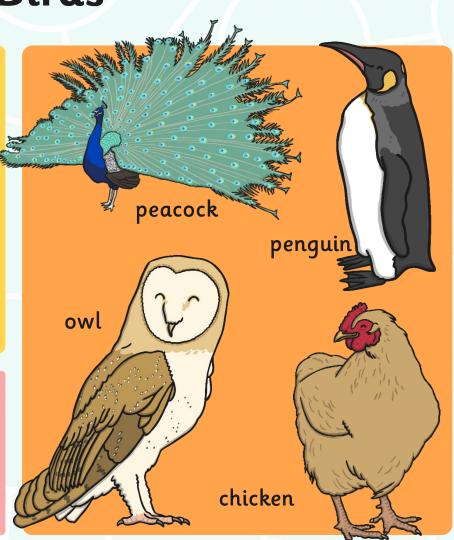


Birds

Birds have a beak, wings, feathers and 2 legs.

They lay eggs on land.

They have warm blood.



Fish

Fish live in water.

They have fins instead of legs and gills instead of lungs.

They lay their eggs in water.

They have cold blood and scaly skin.

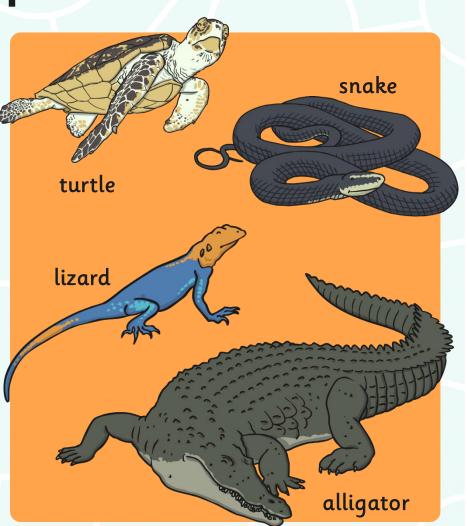


Reptiles

Some reptiles live on land, and some in water. They have lungs that breathe air.

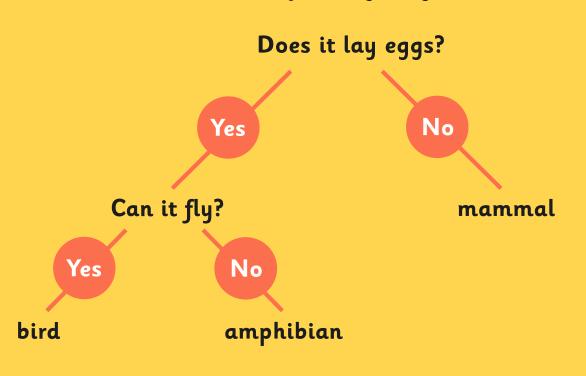
They have scales and are cold-blooded.

They lay their eggs on land.



Classification Keys

Each question has a yes or no answer and leads you one step closer to the name of a living thing.



Classification Keys

The questions start out very general at the beginning of the key as they help you sort the animals into broad groups.



Now try the Vertebrates Activity Sheet

