

Year 1 Term 1.1 Autumn 2018 - 'Animals and Us'
Knowledge Organiser

Living and Non-living Things

- some things are living, and some are non-living
- Plants, animals and people are living things
- Rocks and soil are non-living things

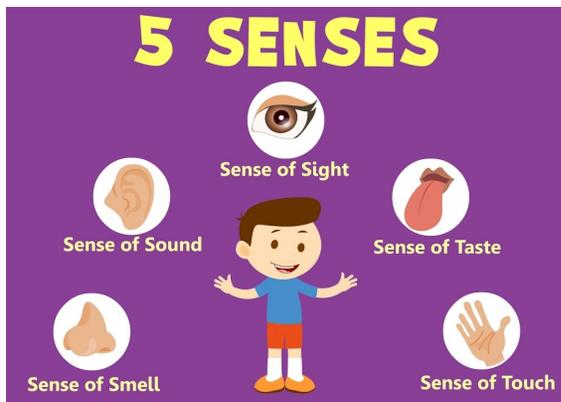
There are some things that humans, animals and plants can all do. These are called **life processes**:

Plants need water and sunlight to make **energy** to grow. Humans and animals also need **nutrition** (food and water) for **growth** and to **stay alive**.

Living things have young and **reproduce**.

All living things can also **move**.

Living things have **sensitivity** - this means they can respond to things they touch, smell, see, hear and taste.



Are all animals the same?

Scientists classify animals into lots of different groups:

Mammals: have **fur** or hair, warm blood and give birth to live **offspring** and feed them milk. Humans, tigers, horses and monkeys are mammals

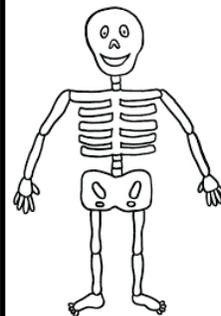
Reptiles: have **scales** instead of fur, are cold blooded and lay eggs instead of giving birth to young. Turtles, crocodiles and snakes are reptiles.

Insects: have six legs, **antennae** on their heads and a hard outer **shell**.

Fish: have **fins** instead of legs, are covered in scales and live in water.

Birds: have two legs, **feathers**, a **beak** and **wings**. They are warm blooded and lay eggs.

Amphibians: have **gills**, like fish, but can also breathe air, often through their skins. They lay their eggs in water. Frogs are amphibians.



Animals, including humans which have a **back bone** are called **vertebrates**.

Animals that do not have a back bone are called **invertebrates**.

Wild animals live in a natural environment such as the jungle or desert. They are not used to humans. They have to find their own nutrition.

Domestic animals have grown up around humans. They are often pets. They rely on humans for nutrition and care.

Farm animals are raised and given food by humans but they are not pets.



Tiger statue in Oslo, Norway

Living things do all the life processes

Non-living things might do some of the life processes, but not all of them.

For example, air and water can move but cannot reproduce.