

Year 6 – Living things and their Habitats - Classification

Key vocabulary

classification	A system used to group animals and plants and allow them to be identified and compared. The names are given in Latin and are understood all over the world.	characteristics	Special qualities or appearances that make an individual or group of things different to others.
organism	Anything that is alive	taxonomist	A scientist who classifies different living things into categories.
vertebrate	an animal distinguished by a backbone or spinal column	microorganisms	A very tiny living thing that can only be seen through a microscope. They can be found in and on our bodies, in the air, in water and on objects around us.
invertebrate	an animal that does not have a backbone or spinal column, they have their skeleton outside their body (an exoskeleton)	bacteria	A single-celled microorganism. Some have great benefits, but some can be harmful.

The Classification system

Domain

Kingdom

Phylum

Class

Order

Family

Genus

Species

Domain: there are three domains – plants and animals belong to the **eukaryote** domain.

Kingdom: The six kingdoms include animal, plant, fungi and bacteria.

Phylum: There are more than 30 phyla in the animal kingdom. **Phylum chordata** includes all vertebrates.

Class: Each phyla is divided into classes. Classes in phylum chordata include mammals, fish and birds.

Order: A smaller group within class

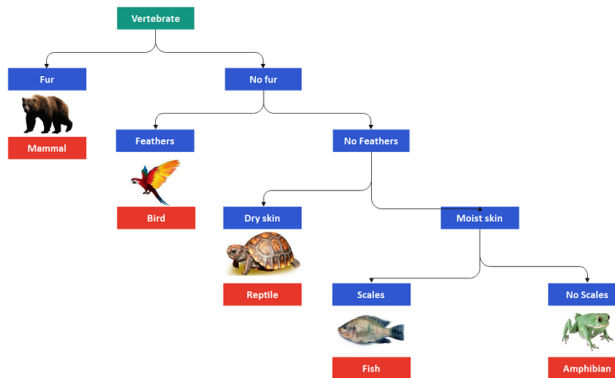
Family: A smaller group within order

Genus: Includes species that are very closely related and share unique body structures.

Species: A group of animals that can reproduce to produce fertile offspring.

Classification key

A series of questions that determine an organism's physical characteristics. It is structured as a flow chart of **yes** and **no** questions. It is used to categorise a selection of plants or animals **or** to identify a plant or animal.



Key people

Carl Linnaeus
1707 - 1778

A Swedish scientist who invented the classification system in 1735.

Animal Classes

Phylum chordata – vertebrates:

Mammal: warm-blooded, has fur, gives birth to live young, feeds babies with milk

Birds: warm-blooded, feathers, beaks (no teeth), lays eggs

Reptiles: cold-blooded, dry, scaly skin, lays eggs

Amphibians: cold-blooded, live in water and on land, undergo metamorphosis, lays eggs

Fish: cold-blooded, breathe through gills under water, lays eggs

Phylum arthropoda – jointed legs and exoskeleton

Insects: six jointed legs, pair of antenna, three body parts, lays eggs

Arachnid (spiders): eight jointed legs, two body parts, produces silk, lays eggs

