

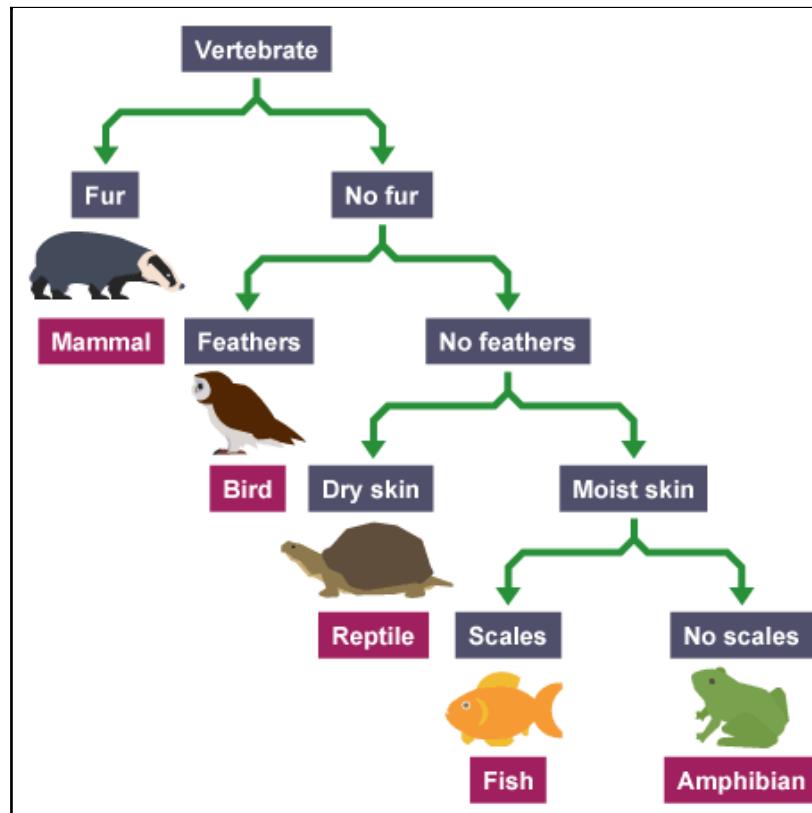
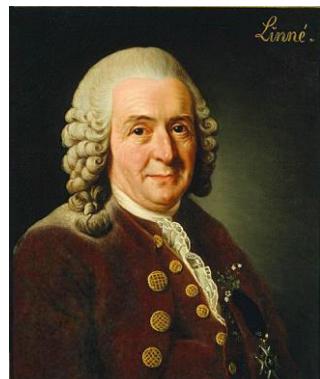
## How and why do scientists classify living things into different groups?

### ESSENTIAL VOCABULARY

Classification	Grouping living things based on shared characteristics.
Microorganism	A tiny living organism that can only be seen with a microscope.
Vertebrate	An animal with a backbone.
Invertebrate	An animal without a backbone.
Species	A group of living things that can reproduce and have offspring.
Characteristic	A feature of quality used to identify and group living things.

### Scientist

Carl Linnaeus – a Swedish scientist who lived in the 1700s. He is known as the "father of modern taxonomy" because he created a system for naming and grouping all living things. Linnaeus organised plants and animals into categories based on their physical characteristics, which helped scientists understand how living things are related.



### Key Concepts

- All living things can be grouped based on their observable features.
- Classification helps scientists to study, understand and identify organisms.
- Microorganisms, plants and animals are the three main groups in classification.
- Animals can be split into vertebrates and invertebrates based on their skeletons.
- Plants can be grouped by features such as flowering or non-flowering.
- Scientific classification uses a system of groups such as kingdom, class, genus and species.

### What I will know at the end of the unit.

That living things are grouped based on similarities and differences.

The key characteristics of mammals, reptiles, birds, amphibians, fish and invertebrates.

That microorganisms are living things, and some are helpful while others are harmful.

How to use classification keys to group and identify living things.

That Carl Linnaeus created the first widely used system of classification still used today.