

Year 6 Knowledge Organiser Science: Living Things and Their Habitats



ALL SAINTS
MULTI ACADEMY TRUST
BIRMINGHAM
GOD'S LOVE IN ACTION

Key Vocabulary

Characteristics	Special qualities or appearances that make an individual or group of things different to others.
Classify	To sort things into different groups.
Taxonomist	A scientist who classifies different living things into categories.
Key	A key is a series of questions that the characteristics of living things. A key is used to identify a living thing or decide which group it belongs to by answering 'yes' or 'no' questions.

Classification Facts

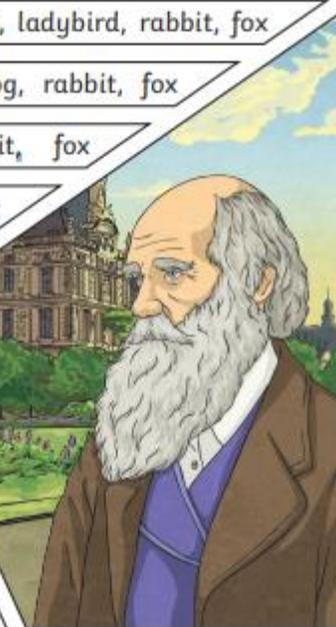
In 1735, Swedish Scientist Carl Linnaeus first published a system for classifying all living things. An adapted version of this system is still used today. The Linnaeus System.

Living things can be classified by eight levels. The number of living things in each level gets smaller until the one animal is left in its species level.

Each group allows scientists to observe and understand the characteristics of living things more clearly. They group similar things together then split the groups again and again based on their differences.

Domain: Eukarya	jackal, clownfish, cat, dog, ladybird, daisy, rabbit, fox
Kingdom: Animalia	jackal, clownfish, cat, dog, ladybird, rabbit, fox
Phylum: Chordata	jackal, clownfish, cat, dog, rabbit, fox
Class: Mammalia	jackal, cat, dog, rabbit, fox
Order: Carnivora	jackal, cat, dog, fox
Family: Canidae	jackal, dog, fox
Genus: Canis	jackal, dog
Species: Lupus	dog

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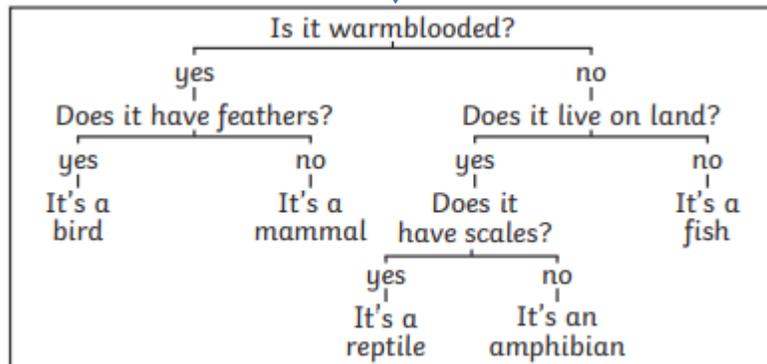
What do I already know?

A life cycle is the journey of changes that take place throughout the life of a living thing including birth, growing up and reproduction.

Strawberry plants use asexual reproduction to create a new plant. This is identical to the parent plant.

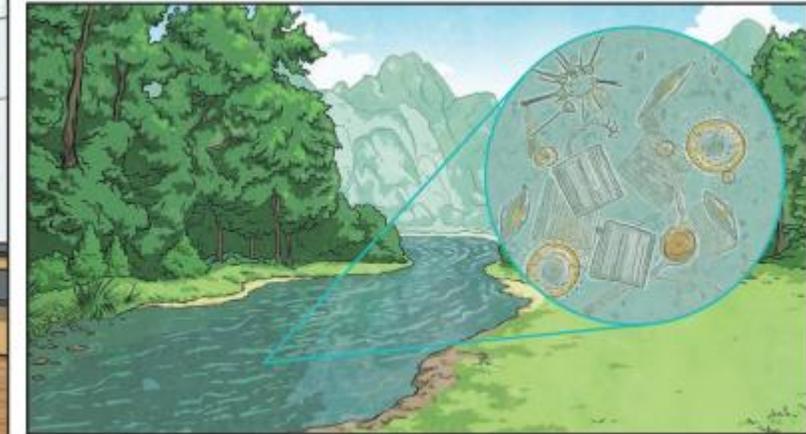
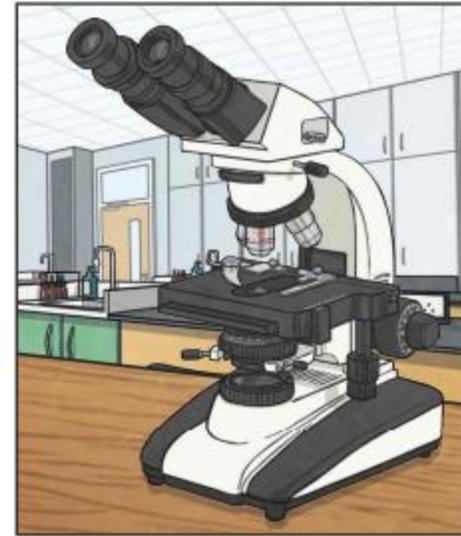
Fun Fact

Scientists, called Taxonomists, sort and group living things according to their similarities and difference



Key Vocabulary

Bacteria	A single - celled microorganism.
Microorganism	An organism that can only be seen using a microscope, e.g. bacteria, mould and yeast.
Microscope	A piece of equipment that is used to view very tiny (microscopic) things by magnifying their appearance.
Species	A group of animals that can reproduce fertile offspring.



Microorganisms

Microorganisms are viruses, bacteria, moulds and yeast. Some animals (dust mites) and plants (phytoplankton) are also microorganisms.

Microorganisms are very tiny living things that can only be seen using a microscope. They can only be found in and on our bodies, in the air, in water and on objects around us.

Helpful Microbes

Harmful Microbes

Bacteria - cheese	Bacteria – salmonella is a bacterium that can lead to food poisoning.
Yeast – wine	Virus – chicken pox and flu are examples of viral diseases.
Bacteria – yoghurt	Fungi – athlete's foot
Yeast – bread dough	Bacteria - plaque
Penicillium fungi – antibiotics	Fungi - mould

