Year 6 Autumn Term Science Knowledge Organiser

KEY QUESTION:

How and why do we classify animals and plants into broad groups?

Classification

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.

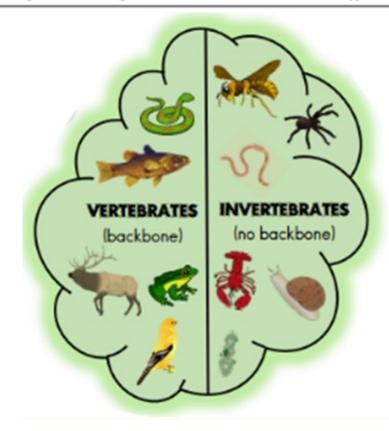
living things more clearly. They group similar things together then split the groups

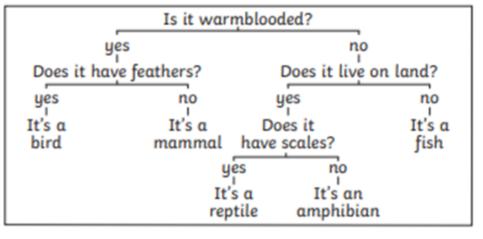
again and again based on their differences.

Living things can be **classified** by these eight levels. The number of living things in each level gets smaller until the one animal is left in its species level. This is how a dog would be classified.

Domain: Eukarya jackal, clownfish, cat, dog, ladybird, daisy, rabbit, fox Kingdom: Animals jackal, clownfish, cat, dog, ladybird, rabbit, fox Phylum: Chorodata jackal, clownfish, cat, dog, rabbit, fox Class: Mammals jackal, cat, dog, rabbit, fox Order: Carnivore jackal, dog, cat, Family: Canidae jackal, dog, Genus: Canis jackal, dog Species: Lupus dog Each group allows scientists to observe and understand the characteristics of

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





Living Things Vocabulary

classify	invertebrates	yeast	observations
species	vertebrates	compare	classification
system	microorganisms	order	organisms
species	similarities	family	bacteria
kingdom	characteristics	Linnaeus	differences

An animal that has eight legs and a body Arachnid formed of two parts A vertebrate animal that has dry scaly Reptile skin and lays eggs on land An animal that is born with gills then Amphibian develops lungs, lays eggs in water, damp skin, body temperature changes Mostly live in water with a hard shell Crustaceans and segmented body Vertebrate An animal with backbone Invertebrate An animal without a backbone A warm-blooded egg-laying vertebrate animal with feathers, wings and normally able to fly.

Activities to complete at home. Bring in your work so it can be celebrated and shared.

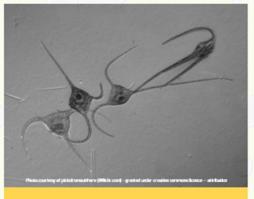
- 1. Make a list of as many different animals for each group that you can
- 2. Make a model of a micro-organism.
- 3. Create a crossword with definition clues linked to the keyword vocabulary list.

What Are Microorganisms?

Some animals and plants are microorganisms. Examples include dust mites and plankton.

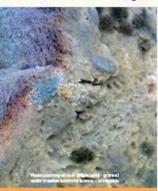


A magnified image of a household dust mite.



Plankton are microscopic organisms drifting in fresh or sea water, including plants and animals.

Other microorganisms are fungi, such as mould, yeast and Penicillium.



Mould is the common word for any fungus that grows on food or other materials.



Penicillium fungus is used to make the antibiotic penicillin.



Yeast is a microscopic fungus that can be used to raise bread dough.