Science Knowledge Organiser - Year 4

Unit: How can different living things be classified?

Key Vocabulary:	
classification	When plants or animals are grouped according to their similarities, we call it <mark>classification</mark> .
characteristics	Characteristics are the distinguishing features or qualities that are specific to a species.
endangered species	When there are very few of a species of plant or animal remaining, it is known as an endangered species·
environment	An environment contains many habitats where there are both living and non-living things·
excretion	Excretion is the process by which a living thing gets rid of waste products.
extinct	When a species has no more members alive on the planet, it is extinct.
habitat	A habitat is the specific area or place in which particular animals or plants may live·
invertebrates	Animals without a backbone are invertebrates
life processes	Life processes are the things living things do to stay alive·
organisms	Organisms is a synonym for 'living things'·
nutrition	Nutrition is food which provides living things with energy to live and stay healthy·
reproduction	Reproduction is the process by which young are produced.
respiration	Respiration is the process where gas from the air is used to turn food into energy.
sensitivity	Sensitivity is the way living things react to changes in their environment·
vertebrates	Animals with backbones are vertebrates·

Science Skills:

- Recognise that living things can be grouped in a variety of ways.
- Explore and use classification keys to help group, Identify and name a variety of living things in their local and wider environment:
- Recognise that environments can change and that this can sometimes pose dangers to living things.
- Gather, record, classify and present data in a variety of ways to help answer questions.
- Identify differences, similarities or changes related to simple scientific ideas and processes.
- Use straightforward scientific evidence to answer questions.
- Record findings using simple scientific language, drawings, labelled diagrams, keys, bar charts and tables.
- Report on findings from enquiries, including oral and written explanations, displays or presentations of results and conclusions.

Key Facts:

- To stay alive and healthy, all
 organisms need certain conditions that
 allow them to carry out the seven
 life processes.
- Changes to an environment can be natural or caused by humans.
- Vertebrates can be classified into five broad groups.

Life Processes

Movement Growth

Respiration Reproduction

Sensitivity Excretion

Nutrition

Changes to an
environment can
have positive as
well as negative
effects.
Here are some
examples of things
that can change
an environment:

- earthquakes
- storms
- floods
- droughts
- wildfires
- the seasons

- deforestation
- pollution
- urbanisation
- new species
- new nature

reserves

Living things rely on the environment to give them what they need. When habitats change, it can be very dangerous for the animals and plants that live there.

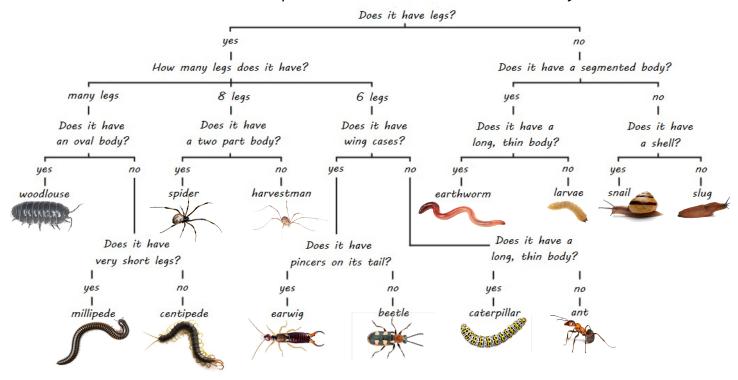
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Classification Keys

You can use classification keys to help group, identify and name a variety of living things.

Here is an example of an invertebrate classification key:



Animals can be grouped in lots of different ways, based upon their characteristics.

