

SMRP KNOWLEDGE ORGANISER YEAR 4 — Classification and Living things

| Science Knowledge |
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| All living things do 7 life processes which include: Movement, Respiration, Sensitivity, Growth, Reproduction, Excretion and Nutrition. (MRS GREN below is used to help remember these) |
| Species become endangered because of loss/damage of habitat and/or lack of food. |
| There are billions of different kinds of living things (organisms) on earth. |
| Scientists have put these into groups according to their similarities and differences. This is known as classifying . |
| Vertebrates are animals with backbone inside their body . Major animal families include fish, amphibians birds and mammals. |
| Invertebrates do not have a backbone. Some have soft bodies (mollusc), like worms, slugs and jellyfish. Other invertebrates, like insects, spiders and crustaceans, have a hard outer casing called an exoskeleton. |

| Word | Definition |
|-----------------------|--|
| life processes | The actions living things do to stay alive (MRS GREN) |
| respiration | All living things use oxygen in the air |
| sensitivity | All living things can respond to changes in their surroundings. |
| excretion | all living things get rid of waste – like when humans go to the toilet. |
| nutrition | animals will eat food for energy and nutrients, plants will suck up goodness from the soil and make their own food using sunlight. |
| classifying | to group things so that that they can be identified |
| organism | a living thing, animal or plant |
| environment | Areas that contain many habitats of living and non-living things |
| endangered | a species of plant or animal that is in danger of becoming extinct. |
| vertebrates | An animal with a back bone. |
| invertebrates | Animal without a back bone such as worm. |
| mollusc | An animal with a soft body (e.g. octopus) sometimes a hard shell to protect its body e.g. snail. |

Characteristics of living things

Movement

Respiration

Sensitivity

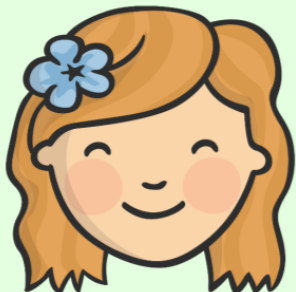
Growth

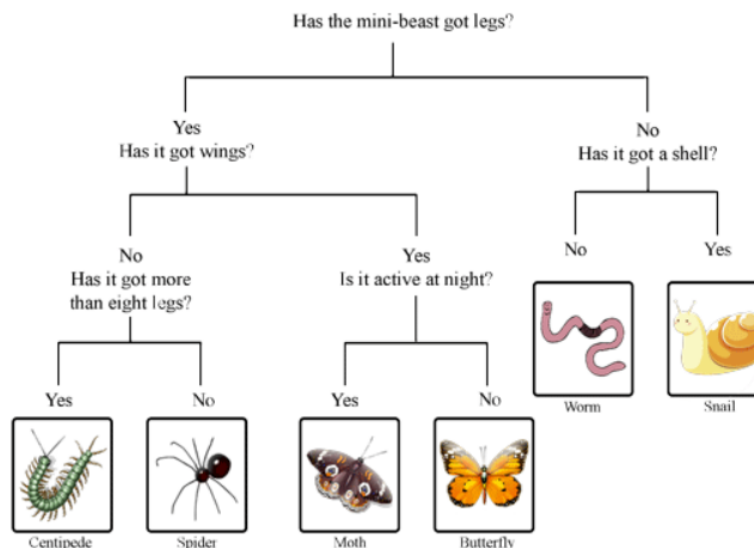
Reproduction

Excretion

Nutrition

MRS GREN





Classification Keys

A set of yes or no questions about the characteristics of living things.

They are used to group and sort animals and plants.