Year 3/4 Subject Knowledge Organiser - Living thigs and their habitats

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What I should already knowExplore and compare the differences between things that are living, dead, and things that have never been alive.Identify that most living things live in habitats to which they are suited and describe how different habitats provide for the basic needs of different kinds of animals and plants, and how they depend on each other.Identify and name a variety of plants and animals in their habitats, including microhabitats.	riety of ways.	Key Concepts Biology Chemistry Physics Scientific enquiry Science for the future Vocabulary	<u>What I will have learnt</u> I will be able to describe the d mammal, an amphibian, an insec I will be able to describe the li some plants and animals. I will be able to describe how I broad groups according to come and based on similarities and d organisms, plants and animals. I will be able to give reasons for based on specific characteristic
Describe how animals obtain their food from plants and other animals, using the idea of a simple food chain, and identify and name different sources of food. <u>Key skills I will I</u> Recognise that living things can be grouped in a v Explore and use classification keys to help group, i local and wider environment.		Key Vocabulary amphibian - a cold-blooded vertebrate that can live in biomes - a natural area of vegetation and animals. bird - warm-blooded vertebrates with feathers, pointe carnivore - an animal that eats meat. classification key - a system which divides things into criteria - a factor on which something is judged. environment - all the physical surroundings on Earth in	

- Recognise that environments can change and that this can sometimes pose dangers to living things. 4
- Asking relevant questions and using different types of scientific enquiries to answer them.
- \downarrow Making systematic and careful observations and, where appropriate, taking accurate measurements using standard units, using a range of equipment.
- 4 Gathering, recording, classifying and presenting data in a variety of ways to help in answering questions.

Opportunities for teaching diversity, equality (including protected characteristics and expanding cultural capital)

Get to meet a scientist! Explore people who use science in their jobs. I'm a Scientist, Get me out of here! - A super-curricular science outreach education & engagement activity (imascientist.org.uk) Science for Everyone (science4everyone.org)

Skills I may use for other subjects

Literacy-I can use my literacy knowledge to write about my findings. Mathematics- I can use my knowledge carry out simple tests and record my findings using diagrams and graphs.

ncluding everything living and nonliving.

excretion - the process of eliminating waste from the body. fish - cold-blooded (mainly) vertebrates that can only live in water. habitat - the natural environment in which an animal or plant lives or grows. herbivore - an animal that only eats plants.

invertebrate - creature that does not have a spine. life processes - the seven processes that tell us that living things are alive. mammal - a warm-blooded vertebrate that breaths air and grows hair. microhabitat - a small part of the environment that supports a habitat. nutrition - the process of taking food into the body and absorbing nutrients. omnivore - person or animal that eats both meat and plants. organism - a living thing.

reproduction - when an animal or plant produces one or more copies of itself. reptile cold - blooded vertebrates.

respiration - process of respiring; breathing; inhaling and exhaling air. sensitivity - responding to the external environment. vegetation - plants, trees and flowers.

at the end of the key stage

lifference in the life cycles of a t and a bird.

ife process of reproduction in

living things are classified into mon observable characteristics lifferences, including micro-

or classifying plants and animals ics.

water and on land.

ed beaks and wings.

groups or types.

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Deforestation

Many of the things that humans do, destroy animal habitats.

Only a very small amount of the world's land is covered in rainforest, but about half of all plants and animals live here.

Humans have cut down large areas of the forest to clear space for building or farming. This has destroyed the habitats of many species and made it difficult for them to



Classifying plants and animals

Classifying is when you group things together that are similar

With so many living things to make records of, and so many yet to discover, it is important that we have a system to organise and make sense of the nformation we have about them.

We organise living things into groups based on their similarities and differences, so that we can learn more about what makes each species unique. The differences between living things is sometimes called variation.

Scientist: Greta Thunburg, The Eco-Warriors and you!