

Science Knowledge Organiser

Year 2 Spring (i)

Why do all food chains start with energy from the sun?

Substantive Knowledge -

To know that most living things live in habitats to which they are suited and how different habitats provide for the basic needs of animals and plants

A **habitat** is a place where an **organism** lives. An organism is another word for a living thing, including plants and animals. Some organisms can be found in lots of different habitats, while others can only survive in one type of habitat.

A habitat must provide everything that an organism needs to survive, otherwise the organism will not be able to live there and will die. For example, the habitat may be too hot, too cold, or too dry, or there might not be enough food.

Sometimes, if an organism is taken out of its natural habitat and placed into a different one, it will die. Similarly, if a habitat changes, perhaps due to human activity, this can cause organisms to die.

To observe microhabitats using magnifying glasses

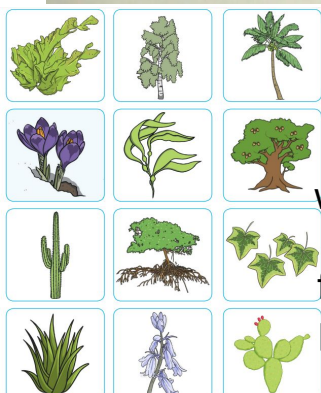


HABITAT	MICROHABITAT
The natural home or environment of an animal, plant, or another organism whereas microhabitat	A small or limited extent and which differs in character from some surrounding more extensive habitat
Large-scale environment	Small-scale environment
Examples: Forest, steppe, grassland, and semi-arid or desert, etc.	Examples: Decomposing log in a forest

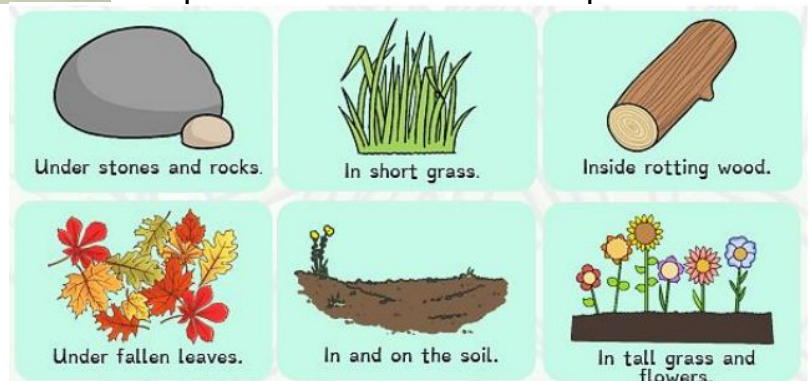
To identify and name a variety of plants and animals in their habitats, including microhabitats



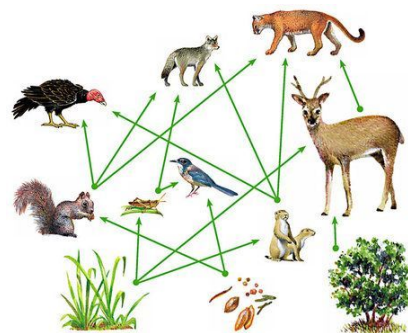
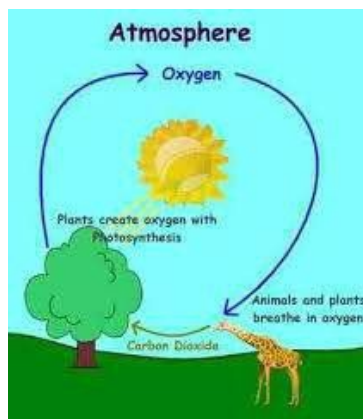
Examples of microhabitats to explore include...



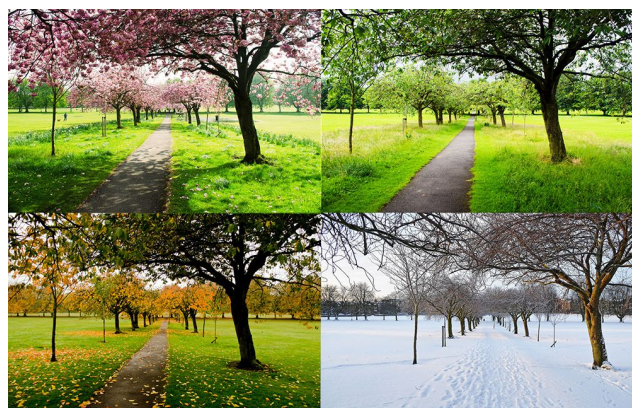
What habitat would you expect to find these plants in? Why?



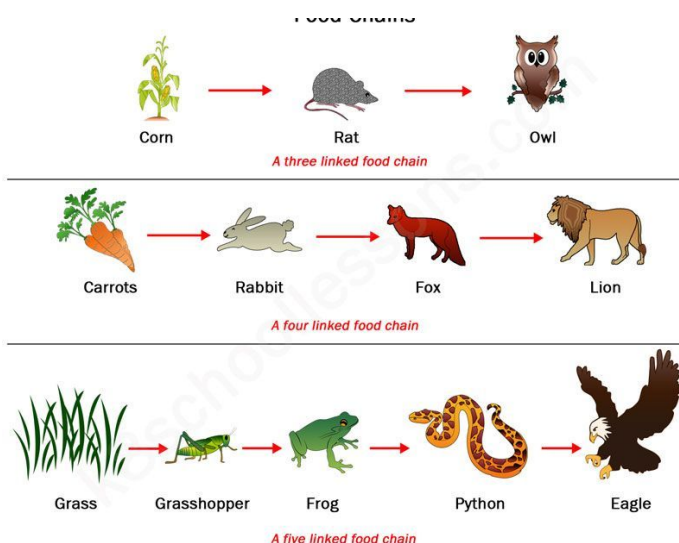
To know how animals and plants depend on each other



To know how habitats change across the year



To draw a simple food chain and identify the names of different sources of food and use food chains to answer questions



Core Vocabulary

living things- something is alive if it does all of the following: respire, move, respond to stimuli, reproduce and grow, and are dependent on their environment

suited- having the qualities that are right, needed, or appropriate for something

microhabitats - a habitat which is of small or is different to some surrounding more extensive habitat.

Disciplinary Knowledge – How will we learn?

- Describe and compare
- Observe similarities and differences
- Identify structure and function
- Find patterns
- Observe over time