# Year 5 & 6 Knowledge Organiser – Evolution & Inheritance

### Key vocabulary

Diagrams

traits	maladaptation	biodiversity	variation	reproduction	offspring	extinct	ancestor	extinct
A distinguishing characteristic or quality	the failure to <b>adapt</b> properly to a new situation or <b>environment</b>	a wide variety of plant and animal species living in their natural environment	a change or slight difference	when an animal or plant produces one or more individuals similar to itself	a person's children or an animal's young	no longer has any living members, either in the world or in a particular place	an early type of animal or plant from which a later, usually dissimi- lar, type has evolved	no longer has any living members, either in the world or in a particular place

of many things, such These can develop as a result are influenced by the environment the as food and climate living things live in. haracteristics that



**Adaptive Traits** 

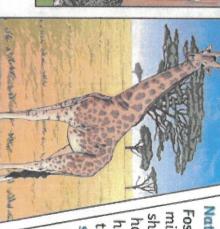






or not you can smell certain flowers. earlobes and whether the shape of your like but so are things inherited example Eye colour is an **Inherited Traits** hair colour, trait,





### Natural Selection

Fossils of giraffes from millions of years ago show that they used to have shorter necks. They have gradually evolved through selection to have longer necks so that they can reach the top leaves on taller trees natural

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### What should I already know?

Which things are living and which are not.

Identifying animals (e.g. amphibians, reptiles, birds, fish, mammals, invertebrates) and plants using classification keys

Animals that are carnivores, herbivores and omnivores.

Animals have offspring which grow into adults.

The basic needs of animals for survival (water, food, air)

Some animals have skeletons for support, protection and movement.

Food chains, food webs and the role of predators and prey.

### Key vocabulary

natural selection	inherit	mutation	species	evolution	characteristics	adaptation
a process by which species of animals and plants that are best adapted to their environment survive and reproduce, while those	If you inherit a characteristic you are born with it, because your parents or ancestors also had it.	characteristics that are not inherited from the parents or ancestors and appear as new characteristics.	a class of plants or animals whose members have the same main characteristics and are able to breed with each other	a process of change that takes place over many generations, during which species of animals, plants, or insects slowly change some of their physical characteristics	the qualities or features that belong to them and make them recognisable	a change in structure or function that improves the chance of survival for an animal or plant within a given environment

that are less well adapted die out

#### Diagrams

**Charles Darwin,** an evolutionary scientist, studied different animal and plant **species**, which allowed him to see how **adaptations** could come about. His work on the finches was some of his most famous.







## What will I know by the end of the unit?

Environment – Evolution and Inheritance

Recognise that living things have changed over time and that fossils provide information about living things that inhabited the Earth millions of years ago.

Recognise that living things produce offspring of the same kind, but normally offspring vary and are not identical to their parents.

Identify how animals and plants are adapted to suit their environment in different ways and that adaptation may lead to evolution.

partial remains, of ancient animals and plants. Fossils let scientists know how plants and animals used to look millions of years ago. This is proof that living things have evolved over time.

