## Caroline Haslett Primary School Science Topic: Evolution and Inheritance Year 6 Diagram

<ul> <li>Identifying invertebra</li> <li>Animals th</li> <li>Animals tha</li> <li>The basic r</li> <li>Some anim</li> <li>Food chain</li> <li>Features o (biodiversi</li> <li>Examples o</li> <li>The life cyo</li> <li>Sometimes plants and</li> <li>Living thing called repr</li> <li>The role of</li> </ul>	of different <b>biomes</b> cle of some animals and plants s <b>environments</b> can change and this has an effect on the animals that exist there gs <b>breed</b> to produce <b>offspring</b> which grow into adults. This is	animal and pl	the second secon
fossils		Vocabulary	
What is evolution?	<ul> <li>What will I know by the end of the unit?</li> <li>Evolution is 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. This is because offspring are not identical to their parents.</li> <li>It occurs when there is competition to survive. This is called natural selection.</li> <li>Difference within a species (for example between parents and offspring) can be caused by inheritance and mutations.</li> </ul>	adaptation	a change in structure or function that improves the chance of <b>survival</b> for an animal or plant within a given <b>environment</b>
		ancestor	an early type of animal or plant from which a later, usually dissimilar, type has <b>evolved</b> a wide variety of plant and animal <b>species</b> living in
		biodiversity	their natural <b>environment</b> a large naturally occurring community of animals
		breeding	and plants occupying a major habitat the process of producing plants or animals by reproduction
	<ul> <li>Inheritance is when characteristics are passed on from generation to the next.</li> </ul>	characteristics	the qualities or features that belong to them and make them recognisable
	<ul> <li>Mutations in characteristics are not inherited from the parents and appear as new characteristics.</li> </ul>	environment	all the circumstances, people, things, and events around them that influence their life
How do we know about <b>evolution</b> ?	<ul> <li>Evidence of evolution comes from fossils - when these are compared to living creatures from today, palaeontologists can compare similarities and differences.</li> </ul>	evolution	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
	<ul> <li>Other evidence comes from living things - comparisons of some species may reveal common</li> </ul>	extinct	no longer has any living members, either in the world or in a particular place
What is	ancestors.	fossil	the hard remains of a <b>prehistoric</b> animal or plant that are found inside a rock
adaptation?	<ul> <li>Adaptation is when animals and plants have evolved so that they have adapted to survive in their</li> </ul>	generation	the act or process of bringing into being; through

survive

theory

variation

reproduction, especially of offspring

environment

characteristics.

on Earth

well adapted die out

individuals similar to itself

to breed with each other

a change or slight difference

continue to exist

explain something

If you inherit a characteristic you are born with it,

the failure to adapt properly to a new situation or

because your parents or ancestors also had it.

characteristics that are not inherited from the

a process by which species of animals and plants

survive and reproduce, while those that are less

the study of fossils as a guide to the history of life

when an animal or plant produces one or more

a class of plants or animals whose members have

the same main characteristics and are able

a formal idea or set of ideas that is intended to

that are best adapted to their environment

a person's children or an animal's young

parents or ancestors and appear as new

layer of blubber under their fur to survive the cold, harsh inherit environment of the Arctic while giraffes have long necks to reach the leaves on trees. maladaptation • Some environments provide challenges yet some animals and plants have adapted to survive there mutation • Sometimes adaptations can be disadvantageous. One example of this can be the dodo, which became extinct as it lost its ability to fly through evolution. Flying was natural unnecessary for the dodo as it had lived for so many years selection without predators, until its native island became inhabited. offspring When adaptations are more harmful than helpful, these are called maladaptations. palaeontology Investigate! reproduction Research the work of Charles Darwin and Alfred Russel Wallace. Create a fact file of an animal or plant identifying how it has **adapted** to its species

environments. For example, polar bears have a thick

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- environment and how it has evolved to survive.
- Create a new planet and describe the environmental features. What animals plants can live there? How have they adapted to survive?

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