Year 6 Science Knowledge Organiser

Term: Spring 2

Evolution and inheritance

Key vocabulary		Significant scientist		Adaptation Plants and animals have characteristics that make
adapted	animals and plants are adapted to their environment - their bodies are suited to the way they live	Charles Darwin (1809–1882)	Charles Robert Darwin was born in Shrewsbury and was an English	them suited to their environment. For example, camel: long evelophes humps
characteristics	a distinguishing trait, feature or quality	3	naturalist and biologist. His scientific theory of	long eyelashes humps to store fat
environment	the conditions in which a living thing exists	1 cm	evolution by natural selection became the	nostrils
evolution	the way in which plants and ani- mals have changed over millions of years		foundation of modern evolutionary studies.	that can close feet
fossil	the naturally preserved remains or traces of animals or plants that lived long ago	Alfred Wallace (1823-1913)	Alfred Russel Wallace was an explorer, natural- ist and anthropologist.	heer
inherited	the way a trait or characteristic is passed to offspring from parents	-	He independently proposed the theory of evolution	thick, camouflaged
offspring	a person's child/children or an ani- mal's young	X	by natural selection. He worked around the world	rubbery lips body colour
species	a group of closely related organisms that are very similar to each other - we are the human species		gathering evidence to support his theory.	Evolution Adaptation can lead to evolution if the environment changes. Animals and plants with variations that are best suited survive in greater
variation	a change or small difference		Fossils give us	numbers to reproduce and pass their characteris- tics on to their young. This is natural selection.
	Living things produce offspring of the same kind. The offspring are not normally identical to their parents and vary from each other.	together how a They can ident	evidence of what lived on the Earth millions of years ago. essils, scientists can put plant or animal looked. ify what the animal ate, red and how it died.	Over time these inherited characteristics become more dominant within the population. Giraffes have evolved to have a longer neck through natural selection. This means they can reach food on the higher branches of trees.