
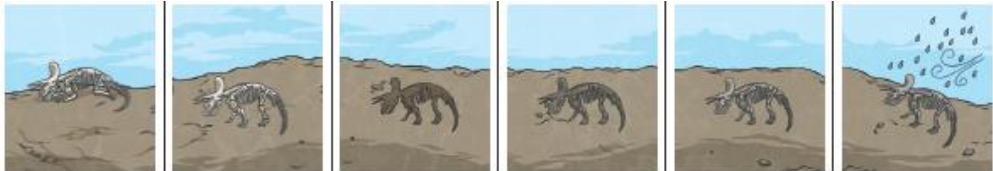



Year 6: Evolution & Inheritance Knowledge Mat

Subject Specific Vocabulary		Working Scientifically	Sticky Knowledge about evolution & inheritance
off-spring	When living things reproduce they pass on characteristics to their offspring. All living things produce offspring of the same kind, but normally offspring are not identical to their parents	<ul style="list-style-type: none">To be able to recognise that living things have changed over time and that fossils can provide evidence for this.To be able to use scientific vocabulary and articulate scientific concepts clearly and precisely, for example the process of fossilisation.To be able to work scientifically and to understand how animals are adapted to their environment and to be able to compare how some living things adapt to live in an extreme environment.To be able to analyse the advantages and disadvantages of specific adaptations.To be able to identify patterns and relationships in evolution linked to environmental factors and make suggestions for future evolutionary responses.To analyse data and make links to wider science.	<ul style="list-style-type: none">Evolution is a scientific theory used by biologists. It explains how living things changed over a long time, and how they have come to be the way they are.
adaptation	Adaptation is the process by which animals, plants and other living things have changed so that they better suit their habitat.		
evolution	Evolution is the theory that all the kinds of living things that exist today developed from earlier types.		
inheritance	When living things reproduce they pass on characteristics to their offspring. This is known as inheritance.		<ul style="list-style-type: none">We know that living things have changed over time, because we can see their remains in the fossils.
palaeontologist	A palaeontologist is someone studying the life of past geological periods, as known from fossil remains.		<ul style="list-style-type: none">We know that the animals and plants of today are different from those of long ago.
Charles Darwin	Charles Darwin was an English scientist who studied nature. He is known for his theory of evolution called Natural Selection. He studied finches on Galapagos and suggested the fittest animals of the species will survive.		<ul style="list-style-type: none">Evolutionary questions are still being actively researched by biologists.
			
genes	Genes that are passed on to you determine many of your traits, such as your hair colour and skin colour. Some of these genes are more dominant than others.		
fossil	Any preserved remains, impression or trace of any once living thing from a past geological age (at least 10,000 years).		
habitat	A specific area or place in which animals and plants can live, e.g. a bird lives in a tree.		
environment	An environment contains many habitats and includes areas where there are both living and non-living things.		

Habitat and environment

antarctica

cold



Adaptations

thick fur

insulation

keen sense of hearing

thick fur on paws

arctic fox

Large eyes, one well in the dark.

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