



Year 6 – Summer 2 – Science – Pupil Knowledge Organiser					
What do I already know?			What am I learning now?		
<ul> <li>Reproduction is the process an organism goes through to create offspring.</li> <li>Offspring are the babies of all living things.</li> <li>Offspring may look and behave in a similar way to their parents but will not be identical.</li> <li>Environments can change, which can sometimes pose a danger to living things.</li> </ul>			<ol> <li>How have living things changed over time, and what do fossils reveal?</li> <li>How are offspring similar and different from their parents?</li> <li>What is adaptation and why is it important?</li> <li>How are different species best suited to their environments?</li> <li>Who were the key scientists with theories of evolution?</li> <li>How does evolution contribute to the diversity of life?</li> </ol>		
Key Knowledge: Evolution & Inheritance		Significant People	Key Skills:  Working Scientifically  Key Vocabulary		
There are a range of different fossil types.  Types of Fossils  Afossil is a preserved remant, impression, or trace of an organism from a past geologic age.  Fossils provide evidence of how living things have changed over millions of years.	An adaptation can be a physical, behavioural, or physiological trait.  Adaptations ensure a species is able to survive and pass on its genes to the next generation.	Observed how finches had adapted in the Galapagos to better suit the food supply and proposed a theory of evolution by natural selection.  Jean-Baptiste Lamarck  Proposed an early theory of	Ask Questions  -? -? Enquiry  Evaluation	evolution  species  fossils  variation  adaptation  traits	The gradual change in organisms, over generations, to make them better suited to their environment.  A group of organisms that can reproduce with each other.  Remains or traces of organisms from the past that have been preserved in rock or sediment.  Differences among individuals of the same species.  A characteristic that helps an organism survive/reproduce in its environment.  Characteristics/features that are inherited from parents.
Offspring inherit traits from		evolution based on	7	h = h :+ = +	The material and income to fine annualist

their parents through genes, which are passed down through generations.





Offspring inherit different traits from each parent, making them different to their parents and siblings.



The processes linked to evolution, including speciation, increases biodiversity which leads to a healthy ecosystem.

inheritance of characteristics.

**Gregor Mendel** 



Deduced that genes come in pairs, with one being inherited from each parent by experimenting on pea plants.





Record/

Present

The natural environment of an organism. habitat inheritance The process by which traits are passed from parents to offspring. Where organisms, which are better suited to their natural environment, are more likely to survive and selection

The accumulation of adaptations/

mutations which over time leads to a new species.

reproduce.

speciation