EVOLUTION and INHERITANCE – Knowledge Organiser Year 6 Autumn 2			
	Vocabulary	Mary Anning (1799 – 1847)	Charles Darwin (1809 – 1882)
evolve	To gradually change and develop over time.	Mary Anning was a famous palaeontologist	Charles Darwin was an English scientist/naturalist who is
characteristic	A quality or feature of a person or thing which makes them recognisable.	and fossil collector who lived in Dorset, England. Her family was poor, so she used	famous for developing the Theory of Evolution by Natural Selection. He believed that all life on Earth avalued from a semmon present whose effenting varied
feature	An observable characteristic e.g., eye colour, nose shape.	to go fossil hunting in the cliffs where they lived and sold the fossils to make a	evolved from a common ancestor whose offspring varied slightly from the previous generation.
offspring	A child or young of a living thing.	living. Over time, Mary became an expert at finding fossils in the Jurassic cliffs along the coastline.	In 1831, Charles Darwin boarded a Royal Navy ship (H.M.S. Beagle) and began a five-year voyage around the world
reproduction	The process of producing offspring from a parent.	During her lifetime, Mary found and identified many pre-	collecting samples of plants, animals and rocks from the various locations he visited.
generation	The period of time between the birth of parents and the birth of their children.	historic fossils including the first complete Ichthyosaurus skeleton (an ancient fish-shaped reptile), a long-necked marine reptile called a Plesiosaurus and the first pterosaur	Pymouth
species	A group of living things which have the same main characteristics and can reproduce with each other.	fossil, a flying reptile. These fossils were important evidence to suggest that such prehistoric creatures existed	Azores Cape Verdo Tenerifo
population	A group of animals or plants of the same species living in the same environment.	but also that they could become extinct.	Galpagos
variation	A change or slight difference in something.	Anning's discoveries contributed to important changes in the scientific thinking about prehistoric life and how the	Caliso - Lima Bahio Rio do Janeiro Mauritius
inherit	When an offspring receives characteristics from its parent.	world has changed over time.	Valparalso King George's Sound
adaptation	A characteristic of a living thing which increases its chances of survival.	Darwin's Theory of Evolution by Natural Selection	During the voyage, Darwin visited the Galapagos Islands
environment	The place in which something lives.	All living things are born with slight variations or differences.	and discovered several species of finches (small birds) which varied from island to island. This discovery and
survival of the fittest	Where animals and plants which are best suited to changes in their environment have an advantage in		analysis of the samples he collected on his voyage helped him to develop the <i>Theory of Evolution</i> .
natural selection	Surviving over those which are less well suited. A process in which animals and plants best suited	these living things are better adapted.	Darwin suggested that living things changed over time by Natural Selection : a natural process in which the
	to their environment will survive and reproduce and those less suited will be weaker and die out.	3. Many species have lots of babies, some of which will not survive.	animals and plants best suited to their environment will survive and reproduce and those less suited will be weaker
compete	To try to obtain something that others also need in order to survive.	4. Those that do survive are better adapted to living	and die out.
extinct	No longer exists.	and breeding in that environment. 5. Adaptations that increase chances of survival are	In 1859, Darwin published his ideas in a book, 'On the Origin of Species'.
fossils	The remains or traces of animals or plants from a long time ago found inside a rock.	passed down through generations and become more common in the population, eventually leading to	"A man who dares to waste one hour of time has not
fossil record	The evidence provided by fossils in layers of rocks showing the sequence of evolution through time.	evolution.	discovered the value of life." Charles Darwin