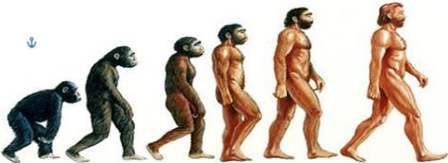


What do we know already:	Vocabulary:		
*I know that fossils were living things millions of years ago. * I understand the process of fossilisation: the compression of layers over the skeletal remains of a once living thing. The skeleton decays and leaves an imprint in the soil. The organic matter of the living thing that creates the fossil shape has been replaced by minerals over time. Over time layers form over the remains and pressure changes this to rock which contains the imprint of the once living thing.	Tier 1	Tier 2	Tier 3
	Characteristics Genes Offspring	Adaptation Evolution Extinct Fossil Inheritance Inherited Natural selection Paleontology Species Variant	DNA - Deoxyribonucleic acid, is the heredity (inherited) material in humans and almost all other organisms. Nearly every cell in a person's body has the same DNA. Mutation - Permanent changes in genes which pass on to future offspring. Pre-historic - relating to the period before written records.
What's next:			
*I will learn that living things have changed over time and that fossils provide information about living things that inhabited Earth millions of years ago. *I will learn to recognise that living things produce offspring of the same kind, but normally offspring vary and are not identical to their parents. *I will learn to identify how animals and plants are adapted to suit their environment in different ways and that adaptation may lead to evolution. *I will learn about Charles Darwin's (1809 - 1882) theory of evolution.			

What is Evolution?	What are fossils?	What is inheritance?		What is adaptation?
*Evolution means the physical changes to living things over a long time span. * Evolution is the gradual process by which living organisms have developed from earlier forms over millions of years. Living things are continuously evolving. *It is the reason we have so many species on Earth. It happens when there is competition to survive (natural selection) and through differences within a species caused by inheritance and mutations. 	*Fossils are the remains of living things which inhabited the world millions of years ago. They are formed in sedimentary rock (sand, mud and pebbles squashed under layer, after layer over time) and plants/ animals get trapped in these layers, revealing their shape. *Most evidence for evolution comes from fossils. *Fossils can inform us how much, or little, organisms have changed over time *Some fossils are easily recognisable and look like plants and animals alive today. 	*Inheritance is when something is passed on to the next generation. *I am an offspring of my parents. *My features are a combination of my parents *I know that if my eye colour is not the same as either of my parents I have inherited the colour from a distant relative (grandparents). Living things produce offspring of the same kind, but normally offspring vary and are not identical to their parents. (inherited traits) 		Adaptation is the action of a living thing changing to suit the environment. If a species is well adapted it will survive and pass on successful genes to offspring. However, being highly adapted to one specific environment can be detrimental to a species' survival if there are sudden changes to that environment. 