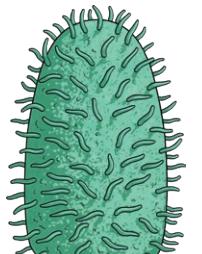
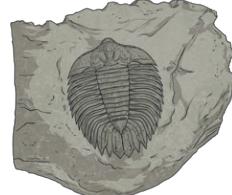
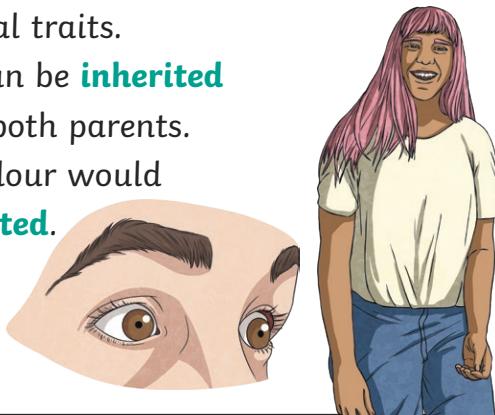


Key Vocabulary		Adaptation	
characteristic	A characteristic is an identifiable feature of an organism.		
variation	Variation is the differences between organisms of the same species.		
adaptation	Adaptation is the process by which a species becomes better suited to its environment.		
fossil	A fossil is the preserved remains or impression of a prehistoric living thing embedded in rock.		
inheritance	Inheritance is the process by which characteristics are passed down to offspring from their parent(s).		
evolution	Evolution is the gradual change in organisms over time, which can result in the creation of new species.	weather and climate	finding food
natural selection	Natural selection is the process by which organisms with the most suitable adaptations are more likely to survive and reproduce. This can lead to evolution.		
extinction	Extinction is the death of all living members of a particular species.		
selection pressure	A selection pressure is an environmental factor that influences how likely an organism is to survive and reproduce.	attracting a mate	avoiding disease

Fossils	Parents and Offspring	Human Evolution
<p>Living things that are alive now are very different from organisms that lived millions of years ago. We know about life in prehistoric times due to fossils.</p> <p>Even incomplete fossils can give us clues about how species adapt over time and why they became extinct.</p> 	<p>Offspring often have similarities with their parents but are usually not exactly the same. Most animals inherit traits from two parents, though a small number have only one parent. Other traits are caused by the environment the organism is living in.</p> 	<p>Humans have evolved over millions of years. There have been several species of hominins (modern and extinct human species) but only Homo sapiens exists today. Here are some examples of extinct hominin species.</p>
<h3>Inheritance</h3> <p>Parents pass certain traits onto their children. This process is known as inheritance and traits that can be inherited are known as hereditary traits. Some traits cannot be passed on because they have developed during the life of the individual. These are known as environmental traits.</p> <p>Eye colour can be inherited from one or both parents.</p> <p>Dyed hair colour would not be inherited.</p> 	<h3>Natural Selection</h3> <p>Mutations occur naturally; these can be helpful, harmful or neutral to the organism. Organisms with adaptations that suit the selection pressures of the environment are more likely to survive and reproduce, potentially passing on these adaptations to their offspring. Over generations, these adaptations become more and more prevalent and less useful traits will die out.</p>	 <p><i>Australopithecus afarensis</i> became extinct about 3 million years ago. They shared a common ancestor with Homo species.</p>  <p><i>Homo neanderthalensis</i> lived at the same time as early Homo sapiens. They walked upright, wore clothing made of animal skin and used tools such as spears and needles.</p>  <p><i>Homo longi</i> was discovered when a fossil of a skull was found in China. They are believed to have lived more than 100,000 years ago. They had a large brain, similar to modern humans.</p>