

















CB4 Natural Selection and Genetic Modification**CB4a Evidence for human evolution**

Step	Learning outcome	Had a look	Nearly there	Nailed it!
 4 th	Define 'evolution'.	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
 5 th	Recognise binomial species names.	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
 7 th	Explain how evidence from fossils and stone tools supports current ideas about human evolution.	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
 5 th	Recall how stone tools are dated from their environment.	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
 6 th	Describe how stone tools created by human-like species have developed over time.	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
 6 th	Describe the fossil evidence for human-like species that lived 4.4, 3.2 and 1.6 million years ago.	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>





CB4b Darwin's theory

Step	Learning outcome	Had a look	Nearly there	Nailed it!
 4 th	Recall the cause of genetic variation.	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
 5 th	Describe how adaptations allow organisms to survive.	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
 8 th	Explain how natural selection allows some members of a species to survive better than others when conditions change.	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
 9 th	Explain how natural selection can lead to the evolution of a new species.	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
 10 th	Explain how the development of resistance in organisms supports Darwin's theory.	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>






CB4c Classification

Step	Learning outcome	Had a look	Nearly there	Nailed it!
 5 th	Describe how organisms are classified into smaller and smaller groups (based on their characteristics).	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
 6 th	Identify genus and species from a binomial name.	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
 6 th	Identify an organism as a member of one of the five kingdoms.	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
 7 th	Describe what genetic analysis is.	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
 9 th	Explain why biologists often now classify organisms into three domains.	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>

CB4d Breeds and varieties

Step	Learning outcome	Had a look	Nearly there	Nailed it!
 7 th	Describe why new breeds and varieties are created.	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
 7 th	Describe what is meant by a 'genetically modified organism'.	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
 8 th	Describe how selective breeding is carried out.	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
 10 th	Explain the impact of selective breeding on domesticated plants and animals.	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>

CB4e Genes in agriculture and medicine

Step	Learning outcome	Had a look	Nearly there	Nailed it!
 9 th	 Describe the main stages of genetic engineering.	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
 7 th	Recall some uses of selectively bred organisms (in agriculture).	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
 8 th	Recall some uses of genetically engineered organisms (in agriculture, in medicine).	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
 11 th	Evaluate the benefits and risks of using selective breeding and genetic engineering to produce new varieties and breeds.	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>