Inheritance and Evolution

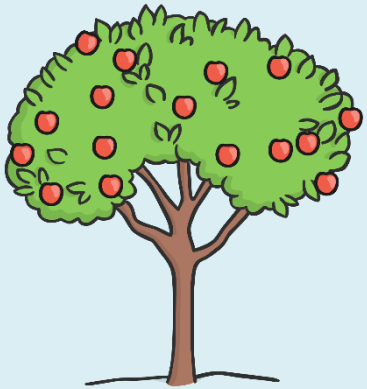
A task setting Powerpoint Pack

•LO: To understand that plants and animals are like their parents in many ways.

- To know what is meant by inheritance.
- To understand that siblings often look similar because they inherit features from the same parents.
- To know what is meant by selective breeding and crossbreeding.

Inheritance

What does the word ‘inheritance’ make you think of?



Inheritance

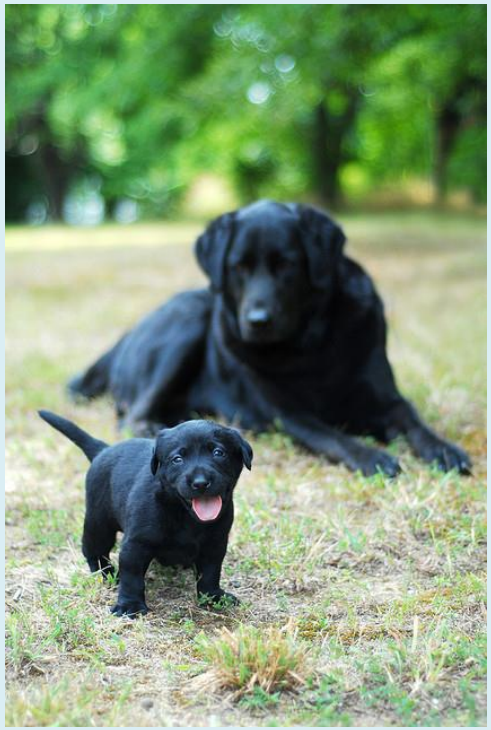
When we talk about inheritance, we often mean things that are passed on to us when one of our relatives or friends has died. Inherited items are sometimes houses or important objects.

Inheritance

For scientists, inheritance refers to the physical features that are passed on from parents to children.

Inheritance

Inheritance does not just occur in humans, but in animals and plants too.



Inheritance

Inheritance results in children sharing physical features with their parents. **Siblings** can also have similar features because they are inherited from the same parents.

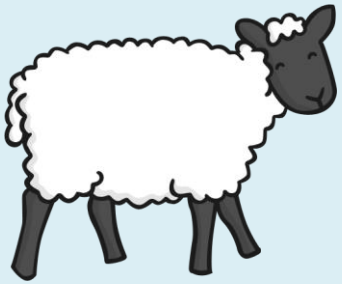
Inherited features can be things like eye colour, hair colour, skin colour and face shape.

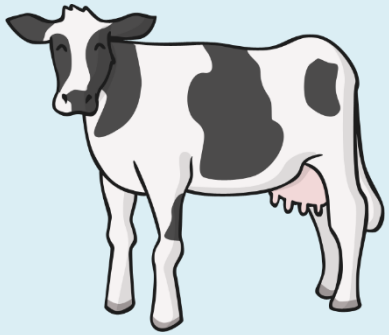
Selective Breeding

By carefully choosing the parents of plants and animals, particular features can be developed.

This is called selective breeding. It works by choosing parents with particular features or characteristics so that their offspring develop similar qualities.

Selective breeding has been used by farmers as far back as Roman times. Selective breeding has created cows that produce more milk, and sheep that grow more wool.

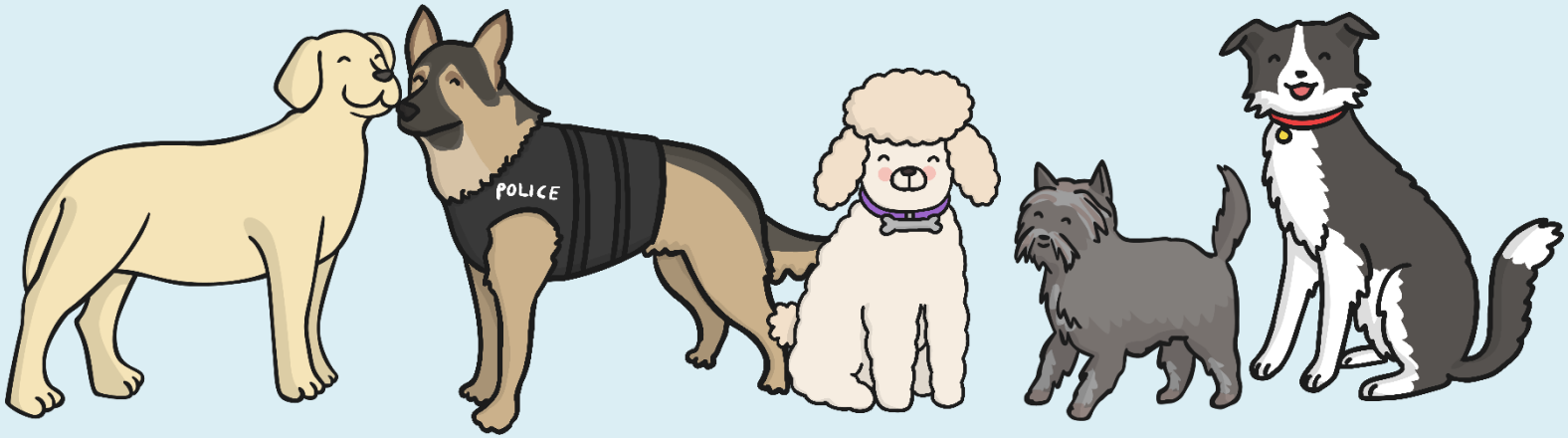




Selective Breeding in Dogs

Dogs all belong to the same **species** but over time they have been **selectively bred** to develop particular **features** and create **distinctive** breeds.

Think about the dogs that you have seen. What features and qualities do you think humans have tried to develop in dogs?



The Labradoodle

The Labradoodle breed has been created by combining the Labrador Retriever and Poodle breeds. This type of selective breeding is called crossbreeding.

POODLE

LABRADOR

LABRADOODLE

Can you identify the different features that the Labradoodle has inherited from its two parent breeds?

There are lots of examples of crossbreeding amongst dogs because humans want to create desirable and interesting breeds.

First, find a picture of a **crossbred** dog from:
(www.dogbreedinfo.com/hybriddogs.htm)

Next, find pictures of the two breeds that it comes from:
(http://www.dogbreedinfo.com/purebred.htm)

Can you identify which features the dog has inherited from each of its parent breeds? Use the Word document to collect your research.

Plenary

Can you complete these sentences?

Inheritance features are passed on from _____ to _____.

Siblings can have similar features because they are inherited from the same _____.

_____ works by choosing parents with particular features so that their _____ develop similar qualities.