

# Teacher Guide

## Inheritance Detectives



**Levels : First & Second**  
**Maximum Number of Pupils: 33**

**Duration**  
**First Level - 45 mins**  
**Second Level - 60 mins**

### What to Expect

#### First level

Pupils will take part in workshop in which they are introduced to the concept of inheritance, mainly focussing on similarities and differences that we can see within and between animal species and within our own species. They will explore various characteristics/traits and we will discuss whether they are inherited or non-inherited. Then working in pairs pupils will explore some of their own characteristics and compare them to the characteristics of the class as a whole. Finally, we will briefly discuss how genes are passed on from parents to their children.

#### Second level

In addition to above mentioned activities, pupils will further discuss how genes can pass on characteristics from the parents to their offspring. In pairs, children will then use this knowledge to breed and build an mythical animal, the 'Reebop'.

### What is Covered

- Differences and similarities
- Inherited and non-inherited characteristics
- Pupils will be involved in various activities related to investigate similarities and differences between an within species
- Pupils will learn how genetic information is passed on from generation to generation
- Second level only - Pupils will use what they have learned about genes and inheritance to breed their own mythical animal.

## Curriculum for Excellence links

We have identified the Curriculum for Excellence experiences and outcomes to which this workshop can most significantly contribute:

### First Level SCN 1-14a

By comparing generations of families of humans, plants and animals, I can begin to understand how characteristics are inherited

### Second Level SCN 2-14a

By investigating the lifecycles of plants and animals, I can recognise the different stages of their development.

### Second Level SCN 2-14b

By exploring the characteristics offspring inherit when living things reproduce, I can distinguish between inherited and non-inherited characteristics.