

Fun & Excitement

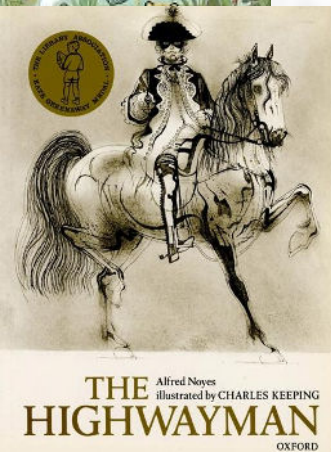
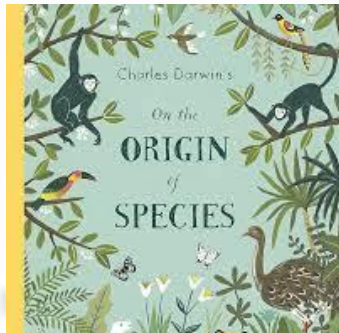
How can we communicate what we have learnt?

What came first? The chicken or the egg!

STICKY KNOWLEDGE FOR SCIENCE

1. Evolution is a process of change that takes place over many generations, during which species of animals, plants, or insects slowly change some of their physical characteristics. It occurs when there is competition to survive. This is called natural selection.
2. Offspring are not identical to their parents.
3. Difference within a species (for example between parents and offspring) can be caused by inheritance and mutations.
4. Inheritance is when characteristics are passed on from generation to the next.
5. Mutations in characteristics are not inherited from the parents and appear as new characteristics.
6. Evidence of evolution comes from fossils - when these are compared to living creatures from today, palaeontologists can compare similarities and differences.
7. Adaptation is when animals and plants have evolved so that they have adapted to survive in their environments. For example, polar bears have a thick layer of blubber under their fur to survive the cold, harsh environment of the Arctic while giraffes have long necks to reach the leaves on trees.
8. Some environments provide challenges yet some animals and plants have adapted to survive there.
9. Sometimes adaptations can be disadvantageous. One example of this can be the dodo, which became extinct as it lost its ability to fly through evolution. Flying was unnecessary for the dodo as it had lived for so many years without predators, until its native island became inhabited.
10. When adaptations are more harmful than helpful, these are called **maladaptations**.

CORE TEXT



MFL

Phonics Lesson 3 & 4 –
At school

PE

Golf
Athletics

RE

What is the best way for a
Buddhist to show
commitment to their
beliefs?

ART

Sketching animals - graded
pencils

MUSIC

Production

PSHE

Being my best

COMPUTING

Creating media - 3D
modelling

MATHS

Converting units - 1 week
Statistics - 1 week
Consolidation - 2 weeks

ESSENTIAL VOCABULARY

Species	a group of similar organisms that are able to reproduce	Characteristics	revealing, distinguishing, or typical of an individual character
Maladaptation	The failure to adapt properly to a new situation or environment	Mutation	a mistake or a change in a living thing's DN
Evolution	The process by which living things can gradually change over time	Palaeontologist	the study of plants and animals that lived millions of years ago
Inheritance	The process of passing on features from parents to offspring.	Extinct	entire species, or type, of animal dies out,
Adaptation	the natural process by which an animal or plant becomes fitted to its surroundings, or environment	Natural selection	a process by which a species changes over time in response to changes in the environment, or competition between organisms, in order for the species to survive.

HOOK

Evolution documentary

END PRODUCT

Slides explaining the evolution of a chosen species that is then explained to the class.