

Evolution and Inheritance: Lesson 8

Adaptation

Science KS2 Year 6



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Science

Key Stage 2 Year 6

Learning Aims:

- looking at how animals are adapted to their environment. How they stay warm or keep cool. How they are adapted to find food. Look at how local animals are adapted to their environment
- at the end of the lesson, children carry out their own research into how one plant or animal is adapted to its environment

Curriculum Link:

Pupils should be taught to:

- identify how animals and plants are adapted to suit their environment in different ways and that adaptation may lead to evolution

Working Scientifically

- planning different types of scientific enquiries to answer questions, including recognising and controlling variables where necessary
- reporting and presenting findings from enquiries, including conclusions, causal relationships and explanations of and degree of trust in results, in oral and written forms such as displays and other presentations
- identifying scientific evidence that has been used to support or refute ideas or arguments

Keyword Vocabulary

Evolve. Environment. These have also been in previous lessons.

Adapt. Habitat.

These can also be found at the end of this PDF and can be placed on a learning wall as they are discussed during the presentation.



Some Reading Links:

These books and websites are a great way to further engage children and deepen their interest and understanding of DNA.

1. The “DNA Detectives – To Catch a Thief” is an exciting, page-turner of a story, where the characters in the book use DNA to catch the pet thief who has stolen their pet dog, Milly. In the story, the children break into their Mum’s laboratory and extract DNA (just like the children will do in Lesson 3) from evidence they have collected. The story also recaps on what they have learnt in this lesson about DNA, cells and the nucleus. This book can be purchased via the following websites:

- Primary Science – the DNA Detectives – Insight and Perspective.
<https://insightandperspective.co.uk/primary-science-the-dna-detectives>
- The Little Story Telling Company: Books | Story telling and published author.
<https://www.thelittlestorytellingcompany.co.uk/>

2. “My DNA diary: All about you” by Lisa Mullan provides a great introduction to DNA for children. It also complements the information children have learnt in this lesson.

<https://www.goodreads.com/book/show/43602545-my-dna-diary>



PowerPoint Presentation

The accompanying PowerPoint presentation has 31 slides with the following learning points:

- Slides 1 and 2 introduce the lesson.
- Slide 3 recaps the meaning of adaptation, inheritance, natural selection and evolution.
- Slides 4 to 7 look at how the camel is perfectly adapted to living in the desert.
- Slides 8 to 11 look at how the polar bear is perfectly adapted to life in the Arctic Circle.
- Slides 12 to 17 look at iguanas and penguins and the special features they have evolved to help them be perfectly adapted to their environment.
- Slides 18 to 20 look at how the cactus and water lily have adapted to their environment.
- Slides 21 and 22 recap the story of the peppered moth and introduce the similar story of the Finnish tawny owl.
- Slides 23 to 26 look at two everyday local animals, the duck and the robin, and how they are adapted to their environment.
- Slide 27 looks at two further local animals: the crow and the squirrel, and asks the children to identify features which they have adapted to help them eat their food.

Activity

- Slide 28 asks the children to research a plant or animal, and to write an information text on how it has adapted to its environment.
- Slide 29: useful links.
- Slide 30 is for any questions.
- Slide 31 is the closing slide.



Evolution and Inheritance: Keywords Flashcards



Evolve

Environment

Adapt

Habitat



Adapt



Habitat

