

Year Group	6
Term	Summer 1
Subject	Science

Topic	Inheritance and Evolution
Curriculum Intent	Children will understand that offspring characteristics are inherited from the parents. Due to sexual reproduction, the offspring are not identical to their parents and vary from each other. Children will be able to explain how living things adapted to their environments over long periods of time, leading to evolution. Children will understand how fossils provided the evidence for evolution.

Key Vocabulary	Offspring, sexual reproduction, vary, characteristics, suited, adapted, environment, inherited, species, fossils, genes, organism, preserved remains, extinct,
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Skills	<ul style="list-style-type: none"> • Know how to write an explanation text – cross curricular. • Talk about how scientific ideas have developed over time. • Identify scientific evidence that has been used to support or refute ideas or arguments • Use relevant scientific language and illustrations to discuss, communicate and justify their scientific ideas. • Use and develop keys and other information records to identify, classify and describe living things and materials, and identify patterns that might be found in the natural environment.
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Knowledge	<ul style="list-style-type: none"> • Recognise that living things have changed over time and that fossils provide information about living things that inhabited the Earth millions of years ago. • Recognise that living things produce offspring of the same kind, but normally offspring vary and are not identical to their parents. • Identify how animals and plants are adapted to suit their environment in different ways and that adaptation may lead to evolution
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Week	Learning Objective	Activities	Outcome
1	To identify inherited characteristics in living things	Children given copies of class photo or put on screen and play Who's Who. In pairs, partner has to guess who it is by asking questions about physical characteristics. What differences did we note between class members?. Some characteristics are inherited from our parents, some are environmental.	Children understand what inherited characteristics are and what environmental characteristics are.
2.	Recognise how offspring inherit variations of characteristics from parents.	Discuss how the offspring has inherited the parent's characteristics and genes. Children to write a paragraph explaining how their offspring has inherited the different parent's characteristics.	Recognise that living things produce offspring of the same kind, but normally offspring vary and are not identical to their parents.
3	To understand what adaptation means and why this occurs within species.	Describe the environment they think their fox lives in and the ways in which they think the fox has adapted to live in that environment. All foxes have a common ancestor but different ones look different due to adaptation.	Identify how animals and plants are adapted to suit their environment in different ways
4	Explain how environmental factors can influence adaptation and evolution.	Show chn the example of the peppered moth and the industrial revolution, explaining that this moth changed hugely in appearance within the space of 50 years in the 19th Century... and then changed back in the second half of the 20th Century.	Identify how animals and plants are adapted to suit their environment in different ways and that adaptation may lead to evolution.
5	Understand what fossils can tell us about living things in the past.	Recap on characteristics and variations. Show through the slides how fossils are formed and what fossils can tell us.	Recognise that living things have changed over time and that fossils provide information about living things that inhabited the Earth millions of years ago.
6	To learn about important scientists and how their work with fossils and living creatures helped develop the theory of evolution.	Children feedback most important findings to the class. Which scientist do they think made the most important contribution to the theory of evolution? Explain. Class vote.	Children learn how fossils have provided important information about species.