



Mountbatten Primary School
Curriculum knowledge

Topic: Evolution and Inheritance (Science)

Term: Autumn 1

Year Group: 6

NC OBJECTIVES	KEY KNOWLEDGE AND VOCABULARY
<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.• Introduce characteristics are passed from parents to their offspring• Find out about the work of palaeontologists developed their ideas on evolution <p><u>Working Scientifically</u></p> <ul style="list-style-type: none">• planning different types of scientific enquiries to answer questions, including recognising and controlling variables where necessary• taking measurements, using a range of scientific equipment, with increasing accuracy and precision, taking repeat readings when appropriate• recording data and results of increasing complexity using scientific diagrams and labels, classification keys, tables, scatter graphs, bar and line graphs• using test results to make predictions to set up further comparative and fair tests• 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.	<ul style="list-style-type: none">• Know that living things produce offspring of the same kind, but normally offspring vary and are not identical to their parents• Know that traits that are passed from one generation by the next, and know that some inherited characteristics may vary• Identify ways in which families or groups of people have some similar or shared characteristics• Know how animals and plants are adapted to suit their environment in different ways• Know how random mutations may or may not be passed from one generation to the next, and how this process results in variation• Know that adaptation of plants and animals to suit their environment may lead to evolution• Know that if traits are advantageous to a species, they may be passed on and that evolution can occur• Identify advantageous traits of species and sequence description of evolutionary processes• Learn more about evolutionary scientists• Know about the contributions of ancient Greek scientists to our understanding of evolution.• Know the work of Carl Linnaeus and that he divided animals into 6 classes: mammals, birds, amphibians, fish, insects and worms• Know the work of Charles Darwin and that he discovered that animals adapt to their environments over time• Know that living things have changed over time and that a number of factors can affect a species' evolution• Know about mutations, and how external factors can affect the evolution of a species• Know how the fossil record provides evidence• Know the work of palaeontologists and how they have developed understanding of evolution• Know the work of famous palaeontologist Mary Anning• Know how humans have evolved over time, and how human behaviour can affect change in species over time• Know about human adaptations which allow us to thrive and consider some impacts of human behaviour on other species