



Science Unit Planner Year: 6 Title: Evolution and Inheritance

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| <b>Unit Overview</b>   | In this unit children learn that living things have changed over time, and many scientists have investigated this over many years. Sometimes animals and plants have to adapt to survive and sometimes they have been adapted by humans for particular reasons. When animals and plants reproduce they have offspring, which will have some elements of them that are the same.   |   |
| <b>Prior Learning/ Links</b>   | Y1 – how plants and animals survive and what plants need to grow.<br>Y2 – Living things and habitats – what makes a good habitat for different plants and animals (early adaption study)<br>Y3 – How animals and plants move and feed and why this is important for survival.<br>Y4 – Living things and what can be dangerous to them. How we can care for the environment.<br>Y5 – lifecycles and how plants and animals reproduce.  |   |
| <b>Unit Title:</b>   | <b>Substantive Knowledge</b>  | <b>Disciplinary Knowledge</b>   |
| <b>Key Questions:</b><br><br>If global warming means that the planet will eventually become mainly water, what will humans have to do to survive?<br><br>What are the key things that caused the extinction of the Dodo and the endangerment of the Giant Panda? | <ul style="list-style-type: none"> <li>• Children know that evolution happens over time because the characteristics of offspring of living things varies and is not exactly the same as their parents/ ancestors.</li> <li>• Evolution means when things change over time and become part of that species.</li> <li>• Children know that we know some things about evolution from the study of fossils and remains from animals, plants and humans from the past.</li> <li>• Children can explain that adaption is how a living thing has changed over time so that it can survive in its habitat.</li> <li>• Some adaptations have allowed living things to survive when things around them change.</li> <li>• If a living thing has to adapt, this may lead to evolution – which means it will then become a feature of that species.</li> <li>• Sometimes the environment changes for living things and they do not have time to adapt and evolve – this can cause species to become endangered or extinct: disease, destruction of habitat, lack of food source, new predator.</li> <li>• Humans have had some negative impact on some species through the destruction of habitat, introducing new species where they don't belong and through our lifestyles e.g – litter, pollution.</li> </ul> | <b>Questioning and Planning</b><br>Plan an enquiry and explore the evidence for the questions asked.<br><br><b>Observation and Measurement</b><br><br><b>Recording and Presenting</b><br>Investigate different sources of evidence and record information. Present information to others using diagrams/ images.<br><br><b>Analysing and Evaluating</b> |
| <b>Vocabulary</b>  | <b>Trips/ Visits/Useful Websites/ Resources</b>   | <b>Key Misconceptions:</b>  |
| <b>Substantive:</b><br>Adaption<br>Ancestor  | <a href="#">Year 6: Evolution and inheritance   STEM</a><br><a href="#">Evolution and inheritance - Year 6 KS2 Science - BBC Bitesize</a>   | That living things can control when and how they change over time: e.g children think the polar bear has decided to have a white coat... or that there is a choice.   |



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| <p>Evolution<br/>Characteristics<br/>Extinct<br/>Generation<br/>Species<br/>Inherit</p> <p><b>Disciplinary:</b></p> <p>Observe<br/>Research<br/>Study<br/>Plan<br/>Reason</p> | <p><a href="#">Evolution and inheritance: Year 6   Lesson Plans for Teachers   Young People's Trust For the Environment (ypte.org.uk)</a></p> | <p>That if an animal decides to adapt, it can, and then it will pass this on to it's offspring.</p> |
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