

# Evolution and Inheritance: Evidence for Evolution

<p><b>Aim:</b> Identifying scientific evidence that has been used to support or refute ideas or arguments;</p> <p>Recognise that living things have changed over time and that fossils provide information about living things that inhabited the Earth millions of years ago in the context of the evolution of plants and animals.</p> <p>I can identify evidence for evolution from fossil records.</p>	<p><b>Success Criteria:</b> I can examine fossil evidence. I can explain how a living thing has evolved over time.</p>	<p><b>Resources:</b> Lesson Pack</p>
	<p><b>Key/New Words:</b> Evolution, inheritance, theory of evolution, fossil, fossil records, evidence, complete, incomplete, ancestor, common ancestor, traits.</p>	<p><b>Preparation:</b> Fossil Evidence for Evolution Activity Sheets - 1 per child Evolution Timeline - as required Laminated Fossilisation Process Cards - 1 per pair</p>

**Prior Learning:** Children will have learnt about the Theory of Evolution in lesson 3.

## Learning Sequence

	<p><b>Inheritance, Adaptation and Evolution:</b> Children match the key words they have learnt so far with their definitions.</p>	
	<p><b>Fossils Review:</b> Can you recall the fossilisation process? Children to review their understanding of the fossilisation process using the differentiated Fossilisation Process Cards. After the activity, ask one pair from each ability group to show how they ordered the cards and their explanations of the fossilisation process. Address any misconceptions or errors that arise.</p> <p>★ Children order the pictures and then match with the corresponding sentence.</p> <p>★★★ Children order the pictures, assign key words to the pictures and rehearse describing the process with their partner. Children then swap pairs and describe the process to a new partner before discussing similarities and differences in their explanations.</p>	
	<p><b>Darwin and Fossils:</b> Explain Darwin's views on the evidence fossil records could provide for the theory of evolution. <b>Examining Fossil Evidence:</b> State the advantages and disadvantages of observing fossil records. <b>Fossil Records:</b> Give pairs of children a copy of the Evolution Timeline while you explain why some living things have more fossil records than others.</p>	
	<p><b>Fossil Evidence for Evolution:</b> Using the differentiated Fossil Evidence for Evolution Activity Sheets, children will compare fossil evidence of evolution for living things.</p> <p>★ Children examine pictures of fossils and their living relatives. Children write a sentence describing the similarities and differences between the fossil and its living relative.</p> <p>★★ Children write a paragraph describing the similarities and differences between fossil evidence and living relatives.</p> <p>★★★ Children write paragraphs on the similarities, differences and give reasons why those adaptations ensured survival.</p>	
	<p><b>Just like a Whale:</b> Children sort animals into pairs with common ancestors. Reveal the correct answers.</p>	

## Taskit

**Filmit:** Children create a short film using pictures or their own drawings, explaining how a particular plant has evolved over time.

**Researchit:** Children research the fossil records of a living thing of their choice. Children use the differentiated Fossil Record Activity Sheets to support with the research and to record what they have found.