

Objective	Milestone Indicators	Basic Activities	Advanced Activities	Deep Activities	Resources
<p>Milestone 3</p> <p>To understand evolution and inheritance.</p>	<p>Milestone 3</p> <p>Recognise that living things produce offspring of the same kind, but normally offspring vary and are not identical to their parents.</p>	<p>On Worksheet 1A, attach pictures of themselves as well as one or both of their parents. They label some similar characteristics, then answer questions about similar and unique characteristics.</p>	<p>On Worksheet 1C, children attach pictures of themselves as well as one or both of their parents. They label some similar characteristics, then describe some characteristics that are not inherited, suggesting factors that may be responsible for their development over time.</p>	<p>Which characteristics are inherited? Provide children with copies of the 'Inherited Characteristics' Read the characteristics listed; children organise themselves according to each of the characteristics. They then discuss the statements on the sheet and, where directed, write down their responses. In pairs, children discuss and agree on a statement which best explains their ideas about inherited characteristics. Children continue to learn about inherited characteristics by researching online with reference to the 'Inherited Characteristics' sheet.</p>	<p>Powerpoint Slides Worksheets 1A/1C 'Inherited Characteristics' sheet</p>

<p>Milestone 3</p> <p>To understand evolution and inheritance.</p>	<p>Milestone 3</p> <p>Identify how animals and plants are adapted to suit their environment in different ways and that adaptation may lead to evolution.</p>	<p>Provide pairs of children with an Environment Poster. They then research an organism that lives in this type of environment using books and the internet. Children draw their chosen organism and label some of its characteristics, giving reasons why they are advantageous.</p>	<p>Provide pairs of children with an Environment Poster. They then research an organism that lives in this type of environment using books and the internet. Children draw their chosen organism and label some of its characteristics, then write a paragraph describing how those characteristics are advantageous, with reference to the conditions of the organism's environment.</p>	<p>Children study and compare the two organisms shown on the 'Advantageous Adaptations' sheet. They make a list of characteristics which are similar and different for the two organisms. Finally, children write a paragraph that explains the reasons for the differences in characteristics between the two organisms.</p>	<p>Powerpoint Slides Environment Posters 'Advantageous Adaptations' sheet</p>
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<p>Milestone 3</p> <p>To understand evolution and inheritance.</p>	<p>Milestone 3</p> <p>Identify how animals and plants are adapted to suit their environment in different ways and that adaptation may lead to evolution.</p>	<p>The cards describe some scientists whose work developed our understanding of the process of evolution. Read the card. Swap cards with a partner. Take turns reading the questions at the bottom of your card to a partner. Can you answer at least three of the questions correctly?</p>	<p>Look at the pictures of the rainforest floor and canopy. There are different species of monkey living in each part of the environment. How might the adaptations of canopy-dwelling monkeys vary from floor-dwelling monkeys? Consider these things: size, colouring, hands and feet and tails, ways of moving, diet, sleeping habits, raising offspring. Draw two columns, noting the differences in each column.</p>	<p>Read the description of how a new, random variation can appear in the offspring of a species. Draw and label an 'evolution flow chart' to show what might happen over several generations.</p>	<p>Powerpoint Slides Task Instructions Task Resources</p>
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<p>Milestone 3</p> <p>To understand evolution and inheritance.</p>	<p>Milestone 3</p> <p>Identify how the work of scientists has helped develop our understanding of the process of evolution.</p>	<p>Using books and the internet, children research the life and work of Charles Darwin. The 'Fact File' on Worksheet 4A has questions to help direct their research and can be completed as they find the answers.</p>	<p>Using books and the internet, children research the life and work of Charles Darwin. They then create a bullet point list of prompts for a one-minute spoken presentation about Charles Darwin.</p>	<p>Using books and the internet, children research the life and work of Charles Darwin. They then create a bullet point list of prompts for a one-minute spoken presentation about Charles Darwin and draw a labelled diagram or flow diagram which can be used in their presentation.</p>	<p>Powerpoint Slides Worksheet 4A</p>
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<p>Milestone 3</p> <p>To understand evolution and inheritance.</p>	<p>Milestone 3</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.</p>	<p>Children produce a mind map which summarises the key points of 'The Fossil Record' sheet.</p>	<p>Provide groups of children with the 'Evolution and Inheritance' game, a dice and a timer. Place the cards face up in the middle of the table. Children number themselves in order around the table. Roll the dice. The child whose number it lands on must pick a card from the top of the pile. They then have one minute to complete the task described. After one minute, the card can be turned over. The backside of the card describes what the child must have done to complete the described task satisfactorily. If they have done so, they may keep the card. If not, the card is placed back in the pile for another child to try.</p>	<p>Children prepare a script for a radio interview with an expert on 'The Fossil Record'. Children record their reports.</p>	<p>Powerpoint Slides The Fossil Record iPad Evolution and Inheritance Game Dice Timer</p>
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