

Year 5/ Year A Science Progression in Skills and Knowledge

NC Knowledge	Pupils not securing learning	Pupils achieving depth in learning
Autumn 1: Evolution and inheritance <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. 		
Autumn 2: Light <ul style="list-style-type: none"> • recognise that light appears to travel in straight lines • use the idea that light travels in straight lines to explain that objects are seen because they give out or reflect light into the eye • explain that we see things because light travels from light sources to our eyes or from light sources to objects and then to our eyes • use the idea that light travels in straight lines to explain why shadows have the same shape as the objects that cast them. 		
Spring 1 and 2: Forces <ul style="list-style-type: none"> • explain that unsupported objects fall towards the Earth because of the force of gravity acting between the Earth and the falling object • identify the effects of air resistance, water resistance and friction, that act between moving surfaces • recognise that some mechanisms, including levers, pulleys and gears, allow a smaller force to have a greater effect. 		

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Summer 1: Animals including animals <ul style="list-style-type: none"> describe the changes as humans develop to old age. 		
Summer 2: Livings things and habitats <ul style="list-style-type: none"> describe the differences in the life cycles of a mammal, an amphibian, an insect and a bird describe the life process of reproduction in some plants and animals 		

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Y5/6 Working:	Pupils not securing learning	Pupils achieving depth in learning
<ul style="list-style-type: none"> planning different types of scientific enquiries to answer questions, including recognising and controlling variables where necessary 		
<ul style="list-style-type: none"> taking measurements, using a range of scientific equipment, with increasing accuracy and precision, taking repeat readings when appropriate 		
<ul style="list-style-type: none"> recording data and results of increasing complexity using scientific diagrams and labels, classification keys, tables, scatter graphs, bar and line graphs 		

Y5/6 Working:	Pupils not securing learning	Pupils achieving depth in learning
<ul style="list-style-type: none"> using test results to make predictions to set up further comparative and fair tests 		
<ul style="list-style-type: none"> 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 		
<ul style="list-style-type: none"> identifying scientific evidence that has been used to support or refute ideas or arguments. 		