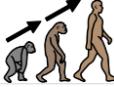
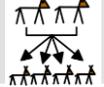


Evolution and Inheritance | Class 4

Vocabulary		The Process of Evolution	An Example of Natural Selection: Peppered Moths										
evolution		Gradual change in an organism's characteristics over many generations	1. More organisms are born than can survive. 2. These individuals all have slight variations between them. 3. Some of these variations are helpful and improve an organism's chance of survival. 4. Those that survive pass their characteristics onto their offspring. 5. Over time these helpful variations are passed on to the next generation. 6. This process takes thousands of years and can't be seen from one generation to the next.										
Inheritance		Passing on characteristics to offspring	1. Light-coloured moths were common. 2. During the Industrial Revolution (1760 – 1840) coal burning covered the moth's habitats in black soot. 3. This gave the dark coloured moths a greater chance of survival because they had better camouflage than the light moths. 4. Many light-coloured moths died as they were easily spotted by their prey. 5. Dark coloured moths became more common 6. As pollution has reduced over time the light coloured moths have now become more common again.										
organisms		An animal or plant.											
characteristics		A feature or quality belonging to a person or animal											
offspring		The young of an animal or the seedling of a plant											
generation		The time between when an organism comes into being and when it reproduces											
breed		Produce offspring											
Variation		A change or slight difference	<p>Charles Darwin </p> <table border="1"> <tr> <td>Dates</td> <td>1809 - 1882</td> </tr> <tr> <td>Famous Book</td> <td>On the Origin of Species</td> </tr> <tr> <td>Famous Achievement</td> <td>Developed the theory of evolution which attempts to explain why there are different species of animals</td> </tr> <tr> <td>Quote</td> <td>"A man who dares to waste one hour of time has not discovered the value of life."</td> </tr> <tr> <td>Famous Voyage</td> <td>HMS Beagle (1831- 1836) Visited the Galapagos Islands</td> </tr> </table>	Dates	1809 - 1882	Famous Book	On the Origin of Species	Famous Achievement	Developed the theory of evolution which attempts to explain why there are different species of animals	Quote	"A man who dares to waste one hour of time has not discovered the value of life."	Famous Voyage	HMS Beagle (1831- 1836) Visited the Galapagos Islands
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genes		Part of a cell of a living thing which controls its physical characteristics											
Natural Selection		The process where organisms that are better adapted to their environment survive and produce more offspring											
adaptation		Changing to become better suited to their environment											
cell		The basic building block of living things. Every animal or plant is made of millions of these.											

