



Year 8	Genetics and Ecosystems		12 Lessons
Aims: This unit of work is designed to introduce students to the basic ideas of genetics and organisms within ecosystems.			
Links to KS4: Chapter 6 Biology – Genetics Chapter 7 Biology - Variation Chapter 8 Biology – Ecology in Action			
Key Skills		Literacy Links:	Numeracy Links:
<ul style="list-style-type: none">To develop an understanding of The Human Genome.To develop an understanding of the structure of DNA.To develop an understanding of a range of ecosystems.		Key Words: Variation, DNA, chromosomes, genes, ecosystem, habitat Be able to read and use these keywords within Scientific situations both verbally and written.	Be able to draw graphs when investigating variation.
Assessment		Cross-Curricular Links	
<ul style="list-style-type: none"><i>Pink sheet teacher assessed activity – Variation.</i><i>50-mark test which will focus on the following key areas: Natural Selection, DNA model & Development, Species, Food webs and Organisms & Environments.</i>		<ul style="list-style-type: none">Graphs – mathematicsVariation - art	
		SMSC opportunities and British values	
Opportunities for further learning			
Homework for year 8 is set on a weekly basis. Below are a range of different activities which could be used throughout the unit. Option 1: Students could look into an ecosystem which they have not looked at in class. Option 2: Students could produce a newspaper article about variation. Option 3: Students could produce a food web. Option 4: Students could create a model of DNA. Option 5: Students could create a cartoon strip about natural selection.			