#### Triple Unit Overview – B6 Inheritance, variation and evolution

## You will learn about:

- Reproduction, the formation of gametes and variation.
- The structure of DNA and how characteristics are inherited.
- Evolution and the evidence that supports it.

## You will be able to:

• Evaluate theories and calculate the probability of inheriting specific characteristics.

Key learning points	
Reproduction	<u> </u>
Meiosis	ĺ
Sex determination	
Structure of DNA	1
Protein synthesis	
Inheritance	
Genetic engineering	
Cloning	
Variation	İ
Selective breeding	
Evolution	
Speciation	1
Fossils and extinction	
Resistant bacteria	

# Links to other subjects:

## SMSC

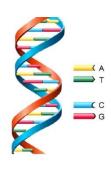
- Explain every day and technological applications of science; evaluate associated personal, social, economic and environmental implications; and make decisions based on the evaluation of evidence and arguments.
- Appreciate the power and limitations of science and consider any ethical issues which may arise.

#### Literacy

- Use scientific vocabulary, terminology and definitions.
- Make and record observations.
- Present reasoned explanations including relating data to hypotheses.

# Numeracy

- Make estimates and explain why they may be important.
- Convert numbers from decimal to standard form, and vice versa.
- Calculate probability of characteristics being inherited.



# **Key Words**

DNA, chromosome, genome, cell division, characteristic DNA, nucleus, gene, mutation, genotype phenotype breed Heterozygous Homozygous Allele Gamete **Darwin** Adaptation **Splice Enzyme** Variation Meiosis