

**Triple Unit Overview – Inheritance, variation and evolution**

Target grade for tests: .....



**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.

<b>Key learning points</b>		<b>Key Words</b>
Reproduction		DNA, chromosome, genome, cell division, characteristic DNA, nucleus, gene, mutation, genotype phenotype breed Heterozygous Homozygous Allele Gamete Darwin Adaptation Splice Enzyme Variation Meiosis
Meiosis		
Sex determination		
Structure of DNA		
Protein synthesis		
Inheritance		
Genetic engineering		
Cloning		
Variation		
Selective breeding		
Evolution		
Speciation		
Fossils and extinction		
Resistant bacteria		
<b>Links to other subjects:</b>		
SMSC <ul style="list-style-type: none"> <li>- 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.</li> <li>- Appreciate the power and limitations of science and consider any ethical issues which may arise.</li> </ul>		
Literacy <ul style="list-style-type: none"> <li>- Use scientific vocabulary, terminology and definitions.</li> <li>- Make and record observations</li> <li>- Present reasoned explanations including relating data to hypotheses.</li> </ul>		
Numeracy <ul style="list-style-type: none"> <li>- Make estimates and explain why they may be important.</li> <li>- Convert numbers from decimal to standard form, and vice versa.</li> <li>- Calculate probability of characteristics being inherited</li> </ul>		