

## Science 1.9 AS 90948 Genetic Variation

Linking Genetics terms: DNA, Alleles and Genes

## Success Criteria: complete each level before moving onto the next

o **Basic:** give 4 correct definitions

o **Proficient:** link a difference in DNA to different alleles

o Advanced: link a change in the base sequence to differences in alleles in specific genes



Cornish Rex Cats have a short curly coat of fur that is the result of a **recessive** allele (r). Normal length fur is produced by the **dominant** allele (R). Any cat with the **genotype** RR or Rr will have the **phenotype** of normal length fur.

Explain the relationship between chromosomes, genes, alleles, phenotype, genotype, dominant, recessive and the molecule DNA.

Chromosomes are	
and are made of <b>DNA</b> which contain	
Lengths of which form a <b>gene</b> which	
and different varieties are called alleles for example	
and the differences in alleles are due to	
A pair of which form a <b>genotype</b> that can be	(RR) (Rr) (rr)
Which can produce different phenotypes such as	