** A level Year 2** Eduqas Component 2

**Inheritance**

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|  |  | R | A | G |
| 1 | alleles as different forms of the same gene |  |  |  |
| 2 | the principles of monohybrid Mendelian inheritance including simple crosses involving codominance |  |  |  |
| 3 | the principles of dihybrid Mendelian inheritance including simple crosses involving linkage |  |  |  |
| 4 | the use of a chi squared test |  |  |  |
| 5 | sex linkage as illustrated by haemophilia and Duchenne muscular dystrophy |  |  |  |
| 6 | gene mutation as illustrated by sickle cell anaemia and chromosome mutation as illustrated by Down's syndrome |  |  |  |
| 7 | the effect of mutagens, carcinogens and oncogenes |  |  |  |
| 8 | the control of gene expression by factors other than changes in the DNA sequence; the study of this is called epigenetics |  |  |  |

**SPECIFIED PRACTICAL WORK**

Experiment to illustrate gene segregation including the use of the chi squared

test in assessing the significance of genetic outcomes