** A level Year 2** Eduqas Component 2

**Variation and Evolution**

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|  |  | R | A | G |
| 1 | genetic and environmental factors producing variation between individuals |  |  |  |
| 2 | variation as continuous and discontinuous; heritable and non-heritable |  |  |  |
| 3 | the effect of inter- and intra-specific competition on breeding success and survival |  |  |  |
| 4 | the impact of selective agencies (e.g. supply of food, breeding sites, climate, human impact) on the survival of organisms |  |  |  |
| 5 | the concept of gene pool and genetic drift |  |  |  |
| 6 | the effect of selection changing the frequency of alleles in a population |  |  |  |
| 7 | the use of the Hardy-Weinberg principle and equation |  |  |  |
| 8 | the conditions under which the Hardy-Weinberg principle applies |  |  |  |
| 9 | the concepts of isolation and speciation |  |  |  |
| 10 | the separation of populations by geographical, behavioural, morphological, seasonal and other isolation mechanisms including hybrid sterility |  |  |  |
| 11 | Darwin's theory of evolution that existing species have arisen through  modification of ancestral species by natural selection |  |  |  |

**SPECIFIED PRACTICAL WORK**

Investigation of continuous variation in a species (including use of the

Student’s t test)