

## Key knowledge

### Genotypes and phenotypes

**2.3.1 the use of symbols in the writing of the genotypes for the alleles present at a particular gene locus**

**2.3.2 the distinction between a dominant and recessive phenotype**

2.3.1.1. Recall what is meant by the term allele?

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2.3.1.2. Distinguish between genotype and phenotype

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2.3.1.3. Distinguish between dominant and recessive phenotypes

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2.3.1.4. Distinguish between homozygous and heterozygous alleles

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2.3.1.5. Include a diagram to explain what is mean by the expression '*multiple alleles at a single locus*'.

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2.3.1.6. (a) Demonstrate how you would determine a monohybrid cross for eye colour of a fruit fly for a homozygous red (dominant) and homozygous white (recessive) and calculate the percentage of the different offspring produced.

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(b) Demonstrate how you would determine a monohybrid cross for eye colour of a fruit fly from the offspring produced in (a) and calculate the percentage of the different offspring produced in this second generation.

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