

ABOUT THE STANDARD

- Genetics is another meaty Level 1 Science standard, with lots of definitions to remember and lots of concepts to explain.
- Just like the other standards though, you can break down the standard into three easy parts:
 - **DNA and how it works:** DNA, genes, alleles, chromosomes, genotypes and phenotypes.
 - **Inheritance and variation:** inheritance of alleles/chromosomes, mutations, meiosis, fertilisation, patterns of inheritance, including Punnett squares and pedigree charts.
 - **Reproduction, survival and natural selection:** sexual vs. asexual reproduction, effect on phenotype on survival, and therefore passing down genes/alleles to the next generation, and the importance of variation on survival.
- Use our walkthrough guides to make sure you know the content, and if you take on the strategies we're about to discuss, you'll be able to come out on top.

EXAM STRATEGIES

- Succeeding in genetics, and in Biology in general, is based on understanding the definitions of key phrases.
 - Fortunately, NZQA have written a list of words you **MUST** know.
 - You must be familiar with the following words and phrases:
 - Gene, allele, mutation, genotype, phenotype, gamete, zygote, dominant, recessive, homozygous, heterozygous, pure breeding, Punnett square, and pedigree chart.
- Not only that, but there's usually a question based around the relationship between DNA, genes, alleles, chromosomes, genotype and phenotype. Luckily, we're here to help you out:
 - Remember that DNA is the (molecule) that carries the genetic code/ information and can be passed down to the next generation.
 - Along the DNA, base sequences provide the code for building different proteins, which then determine particular features
 - A gene is a section of DNA that codes for a particular trait – e.g. fur colour
 - Alleles are different forms a gene can take, or you can think about it as the specific base sequence, e.g. *W* could be the allele for white fur and *w* could be the allele for brown fur
 - Genotype is the allele combination present for a particular gene, e.g. *Ww* for the fur colour gene, and the phenotype is the physical appearance of a trait e.g. white or brown fur.
 - If you know all of these definitions and can link them together, you'll be right on track for success!
- This standard is also all about variation, which is all about the differences individuals can have in their genetic makeup.
- One of the main ways of gaining genetic variation is mutation. A mutation is a change in the DNA base sequence, which means a different protein is made, and so therefore a different phenotype is produced.
 - Mutations are important because it results in the production of a new allele.

Genetic Variation Study Guide

Puja Mehta

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