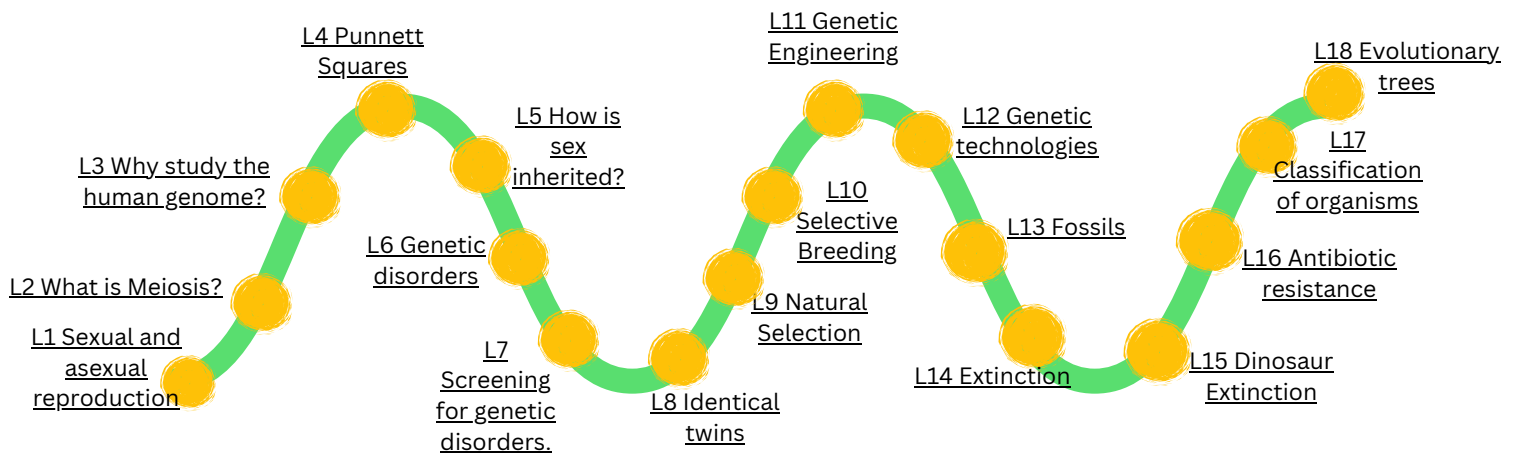


# B6 Inheritance, Variation and

# Evolution COMBINED

## Biology Paper 2

In this unit you will study how genetic information is passed from one generation to the next through DNA, genes, and chromosomes. You will explore the principles of inheritance, including dominant and recessive alleles, Punnett squares, and genetic cross diagrams. The topic also covers variation within species, the process of natural selection, and the theory of evolution by Charles Darwin. You will examine the impact of selective breeding, genetic engineering, and modern biotechnology on society and the environment.



## Key words

- alleles
- asexual reproduction
- bases
- carries
- cystic fibrosis
- dominant allele
- genetic engineering
- genotype
- heterozygous
- homozygous
- meiosis
- mutation
- natural selection
- nucleotide
- phenotype
- polydactyl
- Punnett square
- recessive
- sex chromosomes
- sexual reproduction
- selective breeding
- tissue culture
- archaea
- classification
- domain
- evolutionary trees
- extinction
- speciation
- species

## Revision Resources

[Sample exam style questions](#)

[Cognito Topic 6 Inheritance, Variation and Evolution](#)

[BBC Inheritance, Variation and Evolution](#)

[Free Science Lessons](#)

[Seneca Learning](#)