

Key knowledge

Sexual reproduction

2.1.3 the key events in meiosis that result in the production of gametes from somatic cells including the significance of crossing over of chromatids between homologous chromosomes in Prophase 1 and the non-dividing of the centromere in Metaphase 1

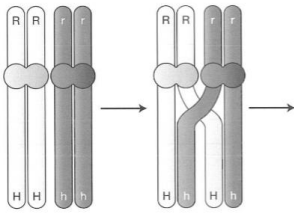
2.1.3.1. Define meiosis.

2.1.3.2. Outline the function and significance of meiosis.

2.1.3.3. Define homologous chromosomes.

2.1.3.4. What is crossing over and why is it significant?

2.1.3.5. Complete the diagram and describe how genetic diversity is increased by this process.



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2.1.3.6. Complete the table comparing meiosis and mitosis.

Feature	Meiosis	Mitosis
Purpose
Location in body
Number of stages in the process
What happens to homologous chromosomes in the process
Number of daughter cells produces
Chromosome number of daughter cells
Comparison of parent to daughter cells
Genetic variability