

LIFE SCIENCES - PAPER 1- QUICK FIXES

DIFFERENCES BETWEEN MITOSIS AND MEIOSIS

<u>MEIOSIS:</u>	<u>MITOSIS:</u>
<ul style="list-style-type: none">• Meiosis involves 2 cell divisions• Meiosis gives rise to sex cells• Cells produced are haploid• Differs according to gender• 2 phases• 4 daughter cells formed• Half the number of chromosomes to the parent cell• All cells formed are genetically different to each other and parent cell• Cells responsible for genetic variation in reproduction	<ul style="list-style-type: none">• Mitosis involves 1 cell division• Gives rise to somatic cells• Cells produced are diploid• Has no gender specification• One phase• 2 daughter cells formed• Same number of chromosomes as parent cell• Genetically identical to each other and parent cell• Cells responsible for growth and repair

DIFFERENCES BETWEEN MEIOSIS I AND MEIOSIS II

<u>MEIOSIS 1</u>	<u>MEIOSIS 2</u>
<ul style="list-style-type: none">• Crossing over occurs in prophase 1• Chromosomes arranged at the equator in homologous pairs in metaphase i• Homologous chromosomes pairs separate• Whole chromosomes are pulled to opposite poles in anaphase I• 2 diploid daughter cells produced	<ul style="list-style-type: none">• No crossing over occurs• Chromosomes arranged singly at the equator in metaphase ii• Sister chromatids separate• Chromatids are pulled to opposite poles in anaphase ii• 4 haploid daughter cells produced

THE IMPORTANCE OF MEIOSIS

- Production of haploid gametes
- The halving effect of meiosis overcomes the doubling effect of fertilisation, thus maintaining a constant chromosome number from one generation to the next
- Mechanism to introduce genetic variation through:
 - Crossing over
 - The random arrangement of chromosomes at the equator

ABNORMAL MEIOSIS

Non-disjunction and its consequences

- Non-disjunction of chromosome pair 21 during Anaphase I in humans to form abnormal gametes with an extra copy of chromosome 21
- The fusion between an abnormal gamete (24 chromosomes) and a normal gamete (23 chromosomes) may lead to Down syndrome

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