

LIFE SCIENCES - PAPER 1- QUICK FIXES

DIFFERENCES BETWEEN MITOSIS AND MEIOSIS

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

DIFFERENCES BETWEEN MEIOSIS I AND MEIOSIS II

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



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