

LIFE SCIENCES - QUICK FIX - PAPER TWO

MEIOSIS

STRUCTURE AND ARRANGEMENT OF CHROMOSOMES IN A NORMAL HUMAN KARYOTYPE.

- Each chromosome comprises two chromatids✓
- held together by a centromere✓
- There are 23 pairs✓/46 chromosomes in human somatic cells✓/body cells
- which are arranged into homologous pairs✓
- that are similar in length✓
- carry genes for the same characteristics✓
- have alleles of a particular gene at the same loci✓ and have the same centromere position✓
- Each somatic cell has 22 pairs/44 autosomes✓ and a pair/2 gonosomes✓/sex chromosomes/X and Y chromosomes
- Autosomes are arranged in pairs from largest to smallest✓ in a karyotype
- Males have XY chromosomes✓
- Females have XX chromosomes✓
- The X chromosome is larger than the Y chromosome✓

BEHAVIOUR OF THE CHROMOSOMES DURING THE DIFFERENT PHASES OF MEIOSIS I.

- During prophase I ✓
- chromosomes pair✓/up/homologous pairs /bivalents form
- Crossing over✓/exchange of genetic material occurs between chromatids✓/adjacent chromosome pairs
- During metaphase I of meiosis
- homologous chromosomes✓/chromosome pairs are arranged at the equator✓/of the cell
- in a random✓ way
- with the chromosome attached to the spindle fibre✓
- During anaphase I ✓
- chromosome pairs separate✓/chromosomes move to opposite poles
- During telophase I ✓
- the chromosomes reach the poles of the cell✓

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