# **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 the same centromere position√
- Each somatic cell has 22 pairs/44 autosomes√and
- a pair/2 gonosomes \( \section \) /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 vup/homologous pairs /bivalents form
- Crossing overviexchange 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 V I
- the chromosomes reach the poles of the cell.

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**N Colangelo** 

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