# **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√/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
- the chromosomes reach the poles of the cell

# Johannesburg Region Life Science 2013 Memo Paper 2 November

**Ed Couzens** 

Johannesburg Region Life Science 2013 Memo Paper 2 November:

Delve into the emotional tapestry woven by Emotional Journey with in Experience **Johannesburg Region Life Science 2013 Memo Paper 2 November**. This ebook, available for download in a PDF format (\*), is more than just words on a page; itis a journey of connection and profound emotion. Immerse yourself in narratives that tug at your heartstrings. Download now to experience the pulse of each page and let your emotions run wild.

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