

# **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✓

# Physical Science Paper2 September 2014 Grade 12

## Memo

**D Siedentop**



**Physical Science Paper2 September 2014 Grade 12 Memo:**

## Whispering the Techniques of Language: An Emotional Quest through **Physical Science Paper2 September 2014 Grade 12 Memo**

In a digitally-driven world where monitors reign supreme and immediate transmission drowns out the subtleties of language, the profound secrets and psychological nuances hidden within words often go unheard. Yet, situated within the pages of **Physical Science Paper2 September 2014 Grade 12 Memo** a fascinating literary treasure sporting with fresh emotions, lies a fantastic quest waiting to be undertaken. Published by a talented wordsmith, this wonderful opus attracts viewers on an introspective trip, delicately unraveling the veiled truths and profound affect resonating within ab muscles material of each word. Within the psychological depths of the moving review, we will embark upon a heartfelt exploration of the book is primary styles, dissect their charming publishing style, and fail to the strong resonance it evokes heavy within the recesses of readers hearts.

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