

LIFE SCIENCES GRADE 12 - PAPER 2
(Answers from past Assessment Guidelines)

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✓

EVENTS THAT LEAD TO DOWN SYNDROME

- Non-disjunction occurred✓/A homologous pair of chromosomes
- at position 21✓
- failed to separate✓
- during anaphase✓
- resulting in one gamete with 24 chromosomes✓ / an extra chromosome / chromosomes at position 21
- The fertilisation of this gamete with a normal gamete✓/gamete with 23 chromosomes /1 chromosome at position 21
- results in a zygote with 47 chromosomes✓
- There are 3 chromosomes✓/an extra chromosome at position 21/ this is Trisomy 21

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VM Jensen



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Parallel Curriculum Units for Science, Grades 6-12 Jann H. Leppien, Jeanne H. Purcell, 2011-02-15 Based on the best selling book *The Parallel Curriculum* this resource deepens teachers understanding of how to use the Parallel Curriculum Model PCM to provide rigorous learning opportunities for students in science grades 6 12 This collection of sample units and lessons within each unit were developed by experienced teachers and demonstrate what high quality curriculum looks like within a PCM framework Ideal for use with high ability students the units revolve around genetics the convergence of science and society the integration of English and Biology and the Periodic Table Lessons include pre and post assessments

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Table of Contents 14 Life Science Essay Grade 1final

1. Understanding the eBook 14 Life Science Essay Grade 1final
 - The Rise of Digital Reading 14 Life Science Essay Grade 1final
 - Advantages of eBooks Over Traditional Books
2. Identifying 14 Life Science Essay Grade 1final
 - Exploring Different Genres
 - Considering Fiction vs. Non-Fiction
 - Determining Your Reading Goals
3. Choosing the Right eBook Platform
 - Popular eBook Platforms
 - Features to Look for in an 14 Life Science Essay Grade 1final
 - User-Friendly Interface
4. Exploring eBook Recommendations from 14 Life Science Essay Grade 1final
 - Personalized Recommendations
 - 14 Life Science Essay Grade 1final User Reviews and Ratings
 - 14 Life Science Essay Grade 1final and Bestseller Lists
5. Accessing 14 Life Science Essay Grade 1final Free and Paid eBooks
 - 14 Life Science Essay Grade 1final Public Domain eBooks
 - 14 Life Science Essay Grade 1final eBook Subscription Services
 - 14 Life Science Essay Grade 1final Budget-Friendly Options
6. Navigating 14 Life Science Essay Grade 1final eBook Formats
 - ePub, PDF, MOBI, and More
 - 14 Life Science Essay Grade 1final Compatibility with Devices
 - 14 Life Science Essay Grade 1final Enhanced eBook Features
7. Enhancing Your Reading Experience
 - Adjustable Fonts and Text Sizes of 14 Life Science Essay Grade 1final
 - Highlighting and Note-Taking 14 Life Science Essay Grade 1final
 - Interactive Elements 14 Life Science Essay Grade 1final
8. Staying Engaged with 14 Life Science Essay Grade 1final

- Joining Online Reading Communities
 - Participating in Virtual Book Clubs
 - Following Authors and Publishers 14 Life Science Essay Grade 1final
9. Balancing eBooks and Physical Books 14 Life Science Essay Grade 1final
- Benefits of a Digital Library
 - Creating a Diverse Reading Collection 14 Life Science Essay Grade 1final
10. Overcoming Reading Challenges
- Dealing with Digital Eye Strain
 - Minimizing Distractions
 - Managing Screen Time
11. Cultivating a Reading Routine 14 Life Science Essay Grade 1final
- Setting Reading Goals 14 Life Science Essay Grade 1final
 - Carving Out Dedicated Reading Time
12. Sourcing Reliable Information of 14 Life Science Essay Grade 1final
- Fact-Checking eBook Content of 14 Life Science Essay Grade 1final
 - Distinguishing Credible Sources
13. Promoting Lifelong Learning
- Utilizing eBooks for Skill Development
 - Exploring Educational eBooks
14. Embracing eBook Trends
- Integration of Multimedia Elements
 - Interactive and Gamified eBooks

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