



LIFE SCIENCES Grade 12

Practical Investigation 1

Date: 18 February 2014

Name: _____

Total	
	30

TO INVESTIGATE THE PROCESS OF MEIOSIS

Organisms produced by sexual reproduction are truly new organisms. They have different sets of genes from their parents. The gametes formed by meiosis are just for the purpose of sexual reproduction. Gametes cannot grow into another organism until they fuse with another gamete to form a zygote. When the zygote forms, it is genetically unique.

Genetic variation allows a species to have a better chance of adapting to and surviving sudden changes in the environment. No two individuals in a sexually reproducing population are exactly the same. Meiosis during sexual reproduction therefore ensures maximum genetic variation and improved the chances of a species' survival.

Source: Life Sciences Explained Grade 12

1. Study the electron micrographs showing various phases of meiosis



- 1.1 State the places where this process will take place in human females .

(1)

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SB Merriam



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Daily Graphic Ransford Tetteh, 2014-09-10

Understanding Developmental Dyslexia: Linking Perceptual and Cognitive Deficits to Reading Processes

Pierluigi Zoccolotti, Peter F. de Jong, Donatella Spinelli, 2016-06-24

Understanding the mechanisms responsible for developmental dyslexia (DD) is a key challenge for researchers. A large literature mostly concerned with learning to read in opaque orthographies emphasizes phonological interpretations of the disturbance. Other approaches focused on the visual perceptual aspects of orthographic coding. Recently this perspective was supported by imaging data showing that individuals with DD have hypo activation in occipito temporal areas, a finding common to both transparent and opaque orthographies. Nevertheless, it is difficult to infer causal relationships from activation data. Accommodating these findings within the cognitive architecture of reading processes is still an open issue. This is a general problem which is present in much of the literature. For example, several studies investigating the perceptual and cognitive abilities that distinguish groups of children with and without DD failed to provide explicit links with the reading process. Thus, several areas of investigation, e.g. acoustic deficits or magnocellular deficiencies, have been plagued by replication failures. Furthermore, much research has neglected the possible contribution of comorbid symptoms. By contrast, it is now well established that developmental disorders present a large spectrum of homotopic and heterotopic comorbidities that make causal interpretations problematic. This has led to the idea that the etiology of learning difficulties is multifactorial, thus challenging the traditional models of DD. Recent genetic studies provide information on the multiple risk factors that contribute to the genesis of the disturbance. Another critical issue in DD is that much of the research has been conducted in English-speaking individuals. However, English is a highly irregular orthography, and doubts have been raised on the appropriateness of automatically extending interpretations based on English to other more regular orthographies. By contrast, important information can be gotten from systematic comparisons across languages. Thus, the distinction between regular and irregular orthographies is another potentially fruitful area of investigation. Overall, in spite of much research, current interpretations seem unable to integrate all available findings. Some proposals focus on the cognitive description of the reading profile and explicitly ignore the distal causes of the disturbance. Others propose visual acoustic or phonological mechanisms but fail to link them to the pattern of reading impairment present in different children. The present Research Topic brings together studies based on different methodological approaches, i.e. behavioural studies examining cognitive and psycholinguistic factors, eye movement investigations, biological markers, neuroimaging, and genetic studies involving dyslexic groups with and without comorbid symptoms, and in different orthographies, transparent and opaque, to identify the mechanisms underlying DD. The RT does not focus on a single model or theory of dyslexia but rather brings together different approaches and ideas which we feel are fruitful for a deeper understanding of developmental dyslexia.

Beating Captain

Najork Todd R. Nelson, 2006-11-12. Weekly columns by an elementary school principal during his six years in a small town in

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parent what should you look for in your children's education How can you tell if their school is right for them and what can you do if it isn't In this important new book he offers clear principles and practical advice on how to support your child through the K-12 education system or outside it if you choose to homeschool or unschool Dispelling many myths and tackling critical schooling options and controversies *You Your Child and School* is a key book for parents to learn about the kind of education their children really need and what they can do to make sure they get it *Social Studies Education in East Asian Contexts* Kerry J. Kennedy, 2020-07-28 The book explores the state of social studies education within selected East Asian societies and provides some insights into distinctive classroom practices In an increasingly volatile and unpredictable world the education of young people who both understand the contexts in which they are growing up and see the need for engaging with them is a top priority This task falls to social studies education which carries the responsibility for inducting young people into their social world and helping them to see the role they can play within it This is particularly important in East Asia where strong economic growth long held cultural values and diverse political systems create an environment that challenges young people on multiple fronts This book with its team of regional authors shows how different societies in the region are dealing with these challenges and what can be expected from future citizens The book will appeal to policy makers researchers and teachers interested in the current state of social studies education in East Asian societies *Handbook on Teaching and Learning in Political Science and International Relations* John Ishiyama, William J. Miller, Eszter Simon, 2015-02-27 With a focus on providing concrete teaching strategies for scholars the *Handbook on Teaching and Learning in Political Science and International Relations* blends both theory and practice in an accessible and clear manner In an effort to help faculty

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