



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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G Psacharopoulos



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