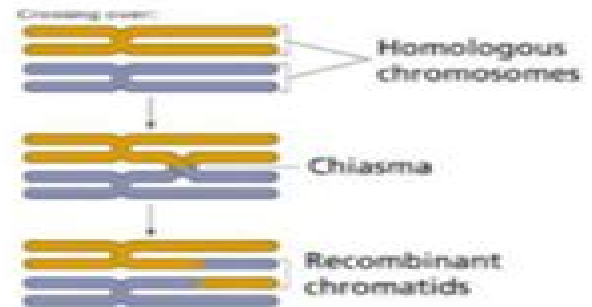


Crossing Over and Gene Mapping WS

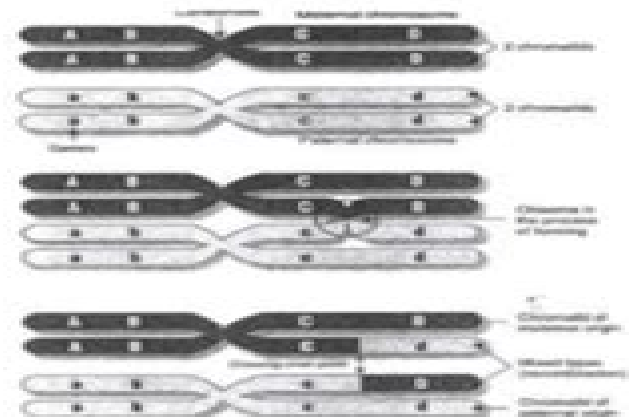
Ever wonder why, except for identical twins, no two people look exactly alike? While genes determine most of our physical characteristics, the exact combination of genes we inherit, and thus our physical traits, is in part due to a process our chromosomes undergo, known as **genetic recombination**. Genetic recombination happens during **meiosis**. Inside the cells that produce **sperm and eggs**, chromosomes become paired. While they are pressed together during Prophase I, the chromosomes may break, and each may swap a portion of its genetic material for the matching portion from its mate. This form of recombination is called **crossing-over**. When the chromosomes glue themselves back together and separate, each has picked up **new genetic material from the other**. The distance apart that genes are on a chromosomes are affects their crossing over rate. The further apart genes are from each other increases their chance of cross over. The closer genes are, the less likely they are to cross over so they remain on the same chromosome. The genes and the physical characteristics are now different than before crossing-over. This process is another major source of genetic diversity.



1. In what kinds of cells does crossing-over take place? _____
2. During what cell process does crossing-over occur? BE SPECIFIC! _____
3. What happens during crossing-over? _____
4. What is the benefit of crossing-over? _____
5. What determines how often crossing over occurs between any 2 particular genes? _____

What happens to genes on chromosomes during crossing over?

1. Homologous chromosomes pair up
2. Adjacent chromatids cross over.
3. Homologous chromosomes separate.



Crossing Over And Gene Mapping Worksheet

J. W. Van Ooijen, J. Jansen



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Investigative Biology, 1986 **Programed Genetics: Extension of the theory** Chester Alvin Lawson, Mary Alice Burmester, 1966 **Journal of Biological Education**, 1991 *Recombination Frequency, Chiasma Counts and the Process of Crossing-over* Nils-Otto Nilsson, 1994 Gene-Mapping Techniques and Applications Lawrence B. Schook, 2020-07-24 This book explains current strategies for mapping genomes of higher organisms and explores applications of gene mapping to agriculturally important species of plants and animals It also explores the experimental techniques used for genetic and physical mapping of genes *Genetic Mapping in Experimental Populations* J. W. Van Ooijen, J. Jansen, 2013-08-08 A concise introduction to genetic linkage map construction for biological researchers combining theory with practical exercises and problem solving tips **Are Genes the Product of Crossing-over** Samuel Jackson Holmes, 1933 **Human Gene Mapping Tech** H. Donis-Keller, 1993-09 A practical guide that includes automated laboratory procedures sources for equipment and reagents and an extensive list of citations for additional reading With an emphasis on genetic linkage mapping this book presents strategies for mapping genes for researchers who have little acquaintance with genetic mapping but some experience with molecular biology and gene cloning techniques **Genetics**, 1965 A Theory of Crossing-over and Gene Conversion Involving Hybrid DNA, 1963

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