
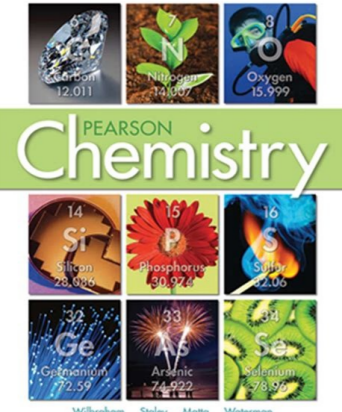
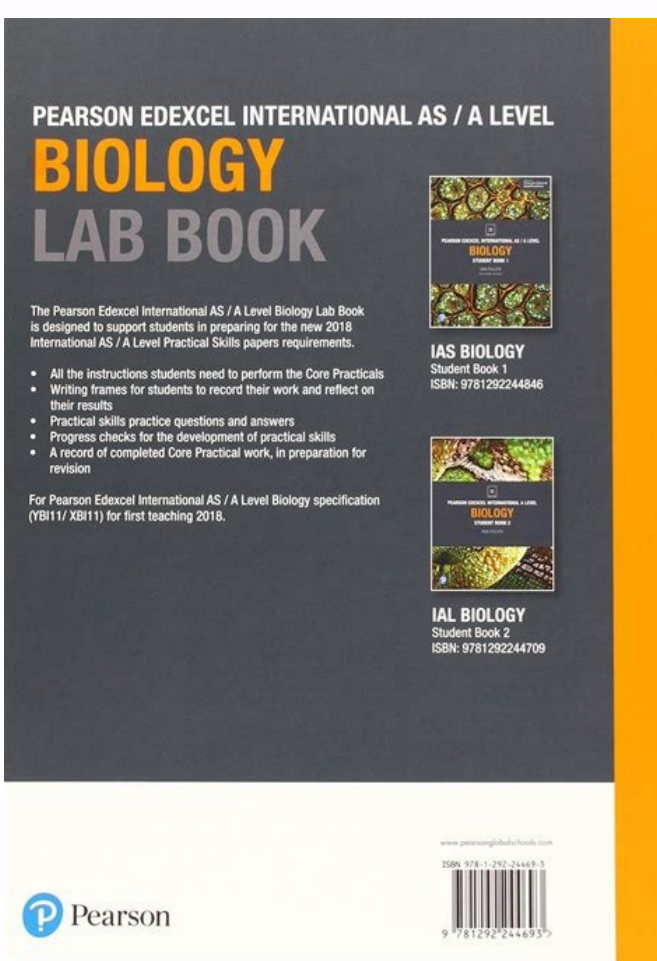


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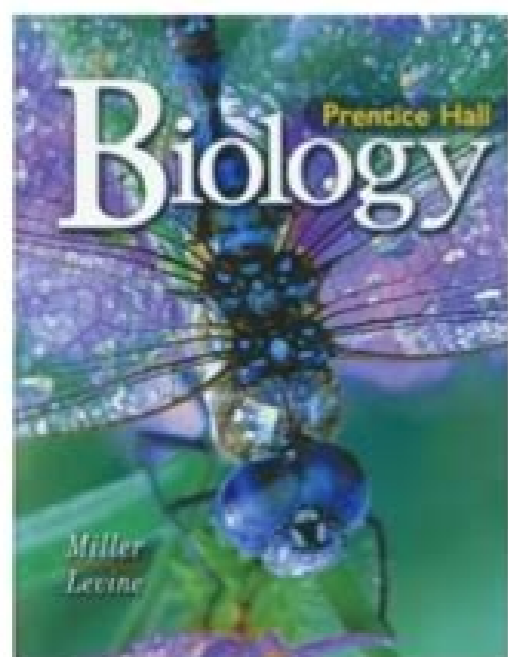
Gene and Chromosome Mutation Worksheet  
(reference pgs. 239-240 in *Modern Biology* textbook)

9. Match the chromosome mutation with its description.

<p>___ 1. Translocation</p> <p>___ 2. Inversion</p> <p>___ 3. Deletion</p> <p>___ 4. Duplication</p>	<p>A). A portion of the chromosome is missing or deleted. Known disorders in humans include <u>Wolf-Hirschhorn syndrome</u>, which is caused by partial deletion of the short arm of chromosome 4; Cri du chat syndrome is due to a partial deletion of the short arm of chromosome number 5.</p> <p>B). A portion of the chromosome is duplicated, resulting in extra genetic material. Known human disorders include <u>Charcot-Marie-Tooth disease type 1A</u> which may be caused by duplication of the gene encoding <u>peripheral myelin protein 22 (PMP22)</u> on chromosome 17.</p> <p>C). When a portion of one chromosome is transferred to another chromosome. Sometimes, parts of different chromosomes switch places (reciprocal exchange).</p> <p>D). A portion of the chromosome has broken off, turned upside down and reattached, therefore the genetic material is backward.</p>
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10. Why are chromosome mutations potentially more serious than gene mutations?

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