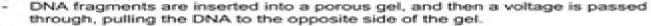
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Scientists use their knowledge of the structure of DNA and its chemical properties to study and change DNA molecules.

#### Tools of Molecular Biology

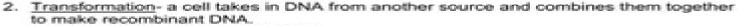
- Gel Electrophoresis
  - a. DNA Extraction- using chemicals to remove DNA from the nucleus of the cell
  - b. Cutting DNA- DNA is much too long to be analyzed, so we cut it into smaller fragments using restriction enzymes. which cut DNA at a specific sequence of nucleotides.
  - Sequencing DNA- DNA fragments can be separated by weight and length in order to analyze specific sequences (order of bases).



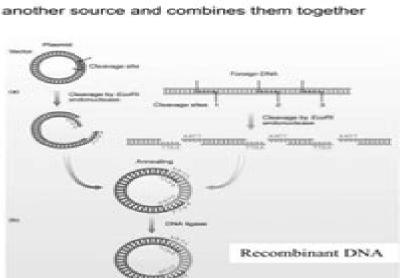
World.

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- DNA is negatively charged.
- The DNA sequence can then be "read" as the lighter segments will travel further and faster.



- Recombinant DNA- DNA that is made by connecting fragments of DNA from different sources.
- Restriction enzymes are used to cut a sequence of DNA.
- What is leftover? A double stranded DNA fragment with a single strainded end.
- Next. a vector is used to insert the DNA into its new source. A vector is a carrier in which foreign DNA can be transferred into a host cell.
- Vectors can be:
  - a. Mechanical- to introduce DNA into a nucleus
  - Biological- virus DNA or plasmids (a small ring of DNA found in a bacterial cell).
- Finally, gene splicing rejoins the cut pieces of DNA through the use of DNA ligase (an enzyme which acts like tape to join the pieces together).



# **Manipulating Dna Study Guide**

**David Scott** 

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