

Section 13-2 Manipulating DNA (pages 323-326)



TEKS SUPPORT: SA Describe components of DNA.

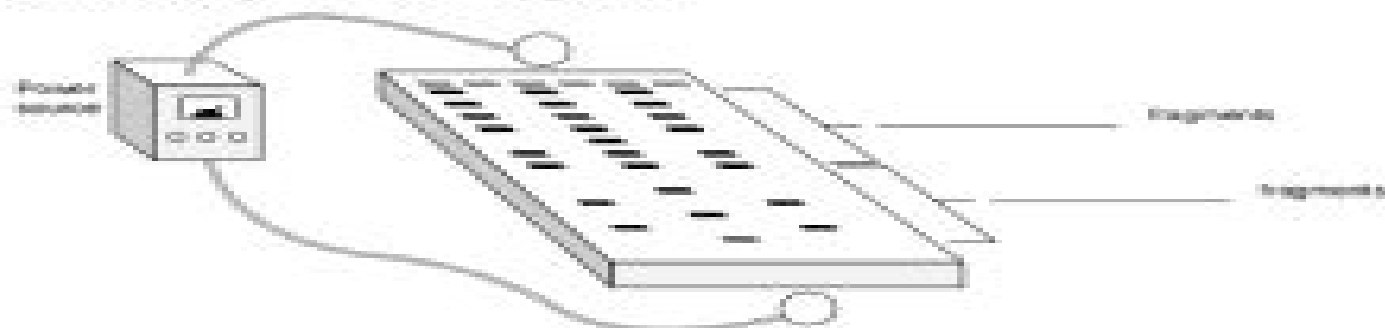
This section describes the various techniques used by molecular biologists to study and change DNA molecules.

The Tools of Molecular Biology (pages 323-326)

1. What is genetic engineering? _____

2. Is the following sentence true or false? Making changes to the DNA code is similar to changing the code of a computer program. _____
3. Scientists use their knowledge of the _____ of DNA and its _____ properties to study and change DNA molecules.
4. List four different techniques that molecular biologists use to study and change DNA molecules.
a. _____
b. _____
c. _____
d. _____
5. Explain how biologists get DNA out of a cell. _____

6. Biologists use _____ to cut DNA molecules at a specific sequence of nucleotides to make smaller fragments.
7. Circle the letter of the process by which DNA fragments are separated and analyzed.
a. gel electrophoresis c. transformation
b. extraction d. restriction
8. In the diagram below, label the positive and negative ends of the gel and identify the location of longer and shorter fragments.



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Manipulating Dna Answer Key

Joseph S. Levine, Kenneth R. Miller



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