

Section 1: Manipulating DNA

Study Guide 9-1

KEY CONCEPT

Biotechnology relies on cutting DNA at specific places.

VOCABULARY

restriction enzyme
gel electrophoresis

restriction map

MAIN IDEA: SCIENTISTS USE SEVERAL TECHNIQUES TO MANIPULATE DNA.

1. List five ways in which scientists study and manipulate DNA.

MAIN IDEA: RESTRICTION ENZYMES CUT DNA.

2. What is a restriction enzyme?

3. What is the nucleotide sequence at which a restriction enzyme cuts DNA called?

4. Why would different restriction enzymes cut the same DNA molecule into different numbers of fragments?

In the space provided below, draw two sketches. Show what happens when a restriction enzyme leaves "blunt ends," and show what happens when a restriction enzyme leaves "sticky ends." Label the restriction sites in each sketch.

Blunt Ends	Sticky Ends

College Freshman Biology Study Guide

Puja Mehta



College Freshman Biology Study Guide:

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