

## **Genetic Engineering Study Guide**

This guide will help you understand the key concepts of genetic engineering. Use your notes, textbook, and other resources to answer the questions and complete the activities.

### **I. What is Genetic Engineering?**

- Define genetic engineering. How does it differ from traditional breeding?
- What is the goal of genetic engineering?
- Give examples of how genetic engineering is used in various fields.

### **II. Tools and Techniques**

- Describe the following tools and techniques used in genetic engineering:
  - Restriction enzymes: What are they? How do they work? What are recognition sites?
  - DNA ligase: What is its function? How does it work?
  - Vectors: What are they? Give examples (plasmids, viruses). What is their role in genetic engineering?
  - PCR (polymerase chain reaction): What is it? How does it work? What are its applications?
  - DNA sequencing: What is it? How does it work? What are its applications?
  - Gene transfer: What are different methods for transferring genes into cells (transformation, transduction, transfection)?

### **III. Applications of Genetic Engineering**

- **Medicine:**
  - How is genetic engineering used to produce human proteins (e.g., insulin, growth hormone)?
  - What is gene therapy? How does it work? What are some examples of diseases it is being used to treat?
  - How are genetically modified animals used in medical research?
- **Agriculture:**
  - What are genetically modified (GM) crops? Give examples (Bt corn, Roundup Ready soybeans).
  - What are the potential benefits of GM crops (increased yield, pest resistance, nutritional enhancement)?

# 94 Genetic Engineering Study Guide Answers 134535

**Pamela Peters**



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Biotechnology Pamela Peters, 1993

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