

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)?

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