

## Chapter 13 Genetic Engineering Study Guide

### Section 1

- Selective breeding
  - Why it's done/what it produces
- Inbreeding
  - Why it's done?
  - What are the dangers?
- What is a hybrid? In general, what are the characteristics of a hybrid?
- How can scientists induce variations?
  - What kinds of organisms have been produced using this method?
- What is the ultimate source of genetic variation?
- What is polyploidy?

### Section 2

- What are restriction enzymes? How do they work?
- What are stick ends?

*Know everything about gel electrophoresis*

- What is the function of gel electrophoresis?
- Why does DNA move to the positive end of a gel electrophoresis apparatus?
- How are the results of DNA gel electrophoresis used?
- What is polymerase chain reaction used for?

### Section 3

# Genetic Engineering Study Guide Answer Key

**David A. Stetler**

## **Genetic Engineering Study Guide Answer Key:**

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**Study Guide for Man, Nature, and Society** Theodore W. Pohl, L. Jack Pierce, 1975

**Essential Genetics**, **Essential Genetics** Daniel L. Hartl, Elizabeth W. Jones, 2006

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