

Unit 9 – Biotechnology Vocabulary and Key Questions

Use this document as a **starting point** for your review and study. It is **not** a study guide and should **not** be the only thing you rely on to be prepared for assessments.

<ul style="list-style-type: none">• restriction enzyme• gel electrophoresis• genomic imprinting• selective breeding• biotechnology• hybridization	<ul style="list-style-type: none">• inbreeding• polymerase chain reaction• recombinant DNA• plasmid• genetic marker	<ul style="list-style-type: none">• transgenic• clone• gene therapy• DNA fingerprinting• forensics
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- ✓ How can scientists read DNA base sequences?
- ✓ What research efforts have resulted from the Human Genome Project?
- ✓ What is selective breeding used for?
- ✓ How do people increase genetic variation?
- ✓ How do scientists copy the DNA of living organisms?
- ✓ How is recombinant DNA used?
- ✓ How are transgenic organisms produced?
- ✓ How can genetic engineering benefit agriculture and industry?
- ✓ How can biotechnology improve human health?
- ✓ How is DNA used to identify individuals?
- ✓ What privacy issues does biotechnology raise?
- ✓ What are some of the pros and cons of transgenic organisms?
- ✓ What are some of the ethical issues around new biotechnology?