

Name \_\_\_\_\_ Period \_\_\_\_\_

## Chapter 20: Biotechnology

The AP Biology exam has reached into this chapter for essay questions on a regular basis over the past 15 years. Student responses show that biotechnology is a difficult topic. This chapter requires a strong conceptual understanding of the technological processes and the underlying biology that guides the procedure. With a little careful work, this chapter will give you insights into the incredible advancements already made and a basis for understanding the new marvels yet to be discovered in biotechnology.

### Overview

1. It is important to understand the meaning of the three terms in bold to start this chapter.

**recombinant DNA**

**biotechnology**

**genetic engineering**

### Concept 20.1 DNA cloning yields multiple copies of a gene or other DNA segment

2. Plasmids are important in biotechnology. Give a full and complete definition of *plasmid*.

3. The production of multiple copies of a single gene is called \_\_\_\_\_.

# Chapter 20 Biotechnology Reading Guide Answers

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