

**Section 13-3 Cell Transformation (pages 327-329)****Key Concepts**

- What happens during cell transformation?
- How can you tell if a transformation experiment has been successful?

**Introduction (page 327)**

1. What occurs during transformation? \_\_\_\_\_  
\_\_\_\_\_
2. Is the following sentence true or false? Griffith's extract of heat-killed bacteria contained DNA fragments. \_\_\_\_\_

**Transforming Bacteria (pages 327-328)**

3. Complete the flowchart to show the steps in transforming bacteria.

Foreign DNA is joined to a(an) \_\_\_\_\_, which is a small, circular DNA molecule found naturally in some bacteria.



Recombinant plasmids are mixed with bacterial cells. Some bacterial cells take in the recombinant DNA by the process of \_\_\_\_\_.



The culture is treated with a(an) \_\_\_\_\_, a compound that kills bacteria.



Only cells that have been transformed survive, because only they carry a(an) \_\_\_\_\_ for antibiotic resistance.

4. Give two reasons why a plasmid is useful for DNA transfer.

- a. \_\_\_\_\_  
\_\_\_\_\_
- b. \_\_\_\_\_  
\_\_\_\_\_

**Transforming Plant Cells (pages 328-329)**

5. When researchers transform plant cells using a bacterium that causes plant tumors, how do researchers prevent plant tumors from forming in the transformed cells?

\_\_\_\_\_  
\_\_\_\_\_

## Section 13 3 Cell Transformation Answer Key

**Mark Steyvers**



### **Section 13.3 Cell Transformation Answer Key:**

## Reviewing **Section 13 3 Cell Transformation Answer Key**: Unlocking the Spellbinding Force of Linguistics

In a fast-paced world fueled by information and interconnectivity, the spellbinding force of linguistics has acquired newfound prominence. Its capacity to evoke emotions, stimulate contemplation, and stimulate metamorphosis is actually astonishing. Within the pages of "**Section 13 3 Cell Transformation Answer Key**," an enthralling opus penned by a very acclaimed wordsmith, readers attempt an immersive expedition to unravel the intricate significance of language and its indelible imprint on our lives. Throughout this assessment, we shall delve into the book's central motifs, appraise its distinctive narrative style, and gauge its overarching influence on the minds of its readers.

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