

Skills Worksheet

# Directed Reading

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## Section: Cell Communication

Read each question, and write your answer in the space provided.

1. What is the main way cells communicate and coordinate activities?

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2. What is a target cell?

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3. How might neighboring cells communicate?

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4. What is an environmental signal? Give an example.

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5. Cells are constantly bombarded by signals. How are they able to respond to only the few signals important to their cell function?

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6. What is a binding site, and why does it have a specific shape?

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**Directed Reading *continued***

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7. Summarize the three responses cells generally have to a specific signal.

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**In the space provided, write the letter of the description that best matches each term.**

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|----------------------------|---|
| _____ 8. signal            | a. forms in response to information from outside a cell and acts as an information carrier within a cell, causing changes in the cytoplasm or the nucleus |
| _____ 9. receptor protein  | b. binds to a specific signal molecule, causing a cell to respond   |
| _____ 10. enzyme           | c. speeds up a specific chemical reaction in the cell   |
| _____ 11. second messenger | d. carries information from one cell or cells to other cells  |