

**Chapter 25 Plant Responses and Adaptations****Section Review 25-1****Reviewing Key Concepts**

**Matching** *On the line provided, write the letter of the term that best matches each description. A term may be used more than once.*

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|--|-------------------|
| _____ 1. chemical substances that control a plant's patterns of development and responses to the environment | a. plant hormones |
| _____ 2. stimulate cell elongation   | b. ethylene       |
| _____ 3. produced in the apical meristem   | c. gibberellins   |
| _____ 4. produced in growing roots   | d. gravitropism   |
| _____ 5. stimulate the growth of lateral buds  | e. cytokinins     |
| _____ 6. cause dormant seeds to sprout   | f. auxins         |
| _____ 7. produce dramatic increases in size  | g. phototropism   |
| _____ 8. stimulates fruits to ripen  |                   |
| _____ 9. growth toward a light source  |                   |
| _____ 10. growth in response to the force of gravity   |                   |

**Short Answer** *On the lines provided, answer the following questions.*

11. In a plant's stem, what is the relationship between the amount of light received and auxin concentration?

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12. How are auxins able to cause a stem to grow upright?

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13. How do auxins produce the phenomenon called apical dominance?

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**Reviewing Key Skills**

14. **Forming Operational Definitions** Identify the functions of a plant hormone.

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15. **Comparing and Contrasting** Describe the advantages and disadvantages of using ethylene to ripen fruit.

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