

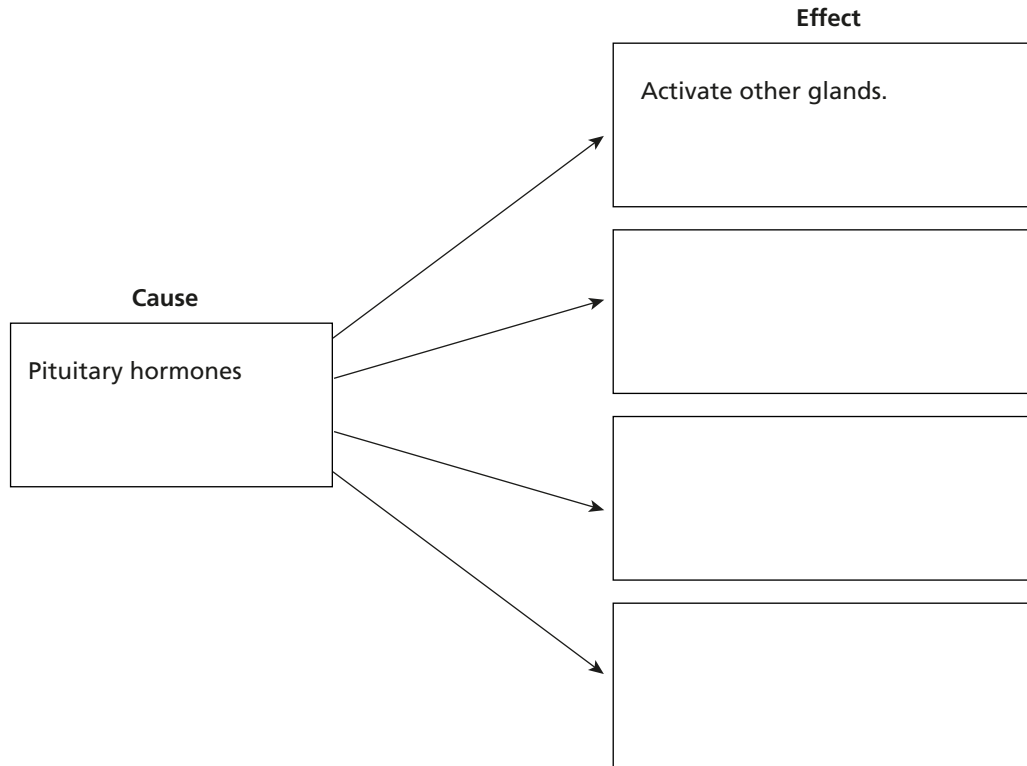
**The Endocrine System and Reproduction** ▪ *Reading/Notetaking Guide*

# **The Endocrine System** (pp. 640–645)

*This section explains how the endocrine system works to control activities in the body.*

## **Use Target Reading Skills**

*As you read, identify the effects of pituitary hormones. Write the information in the graphic organizer below.*



## **Hormones and the Endocrine System** (pp. 641–642)

1. What does the endocrine system control?

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2. The endocrine system is made up of \_\_\_\_\_ that produce chemicals that control body processes.

3. Is the following sentence true or false? Endocrine glands release their chemical products through delivery tubes. \_\_\_\_\_

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4. The chemical product of an endocrine gland is a(n) \_\_\_\_\_, or chemical messenger.
5. How do hormones affect the body?  
\_\_\_\_\_  
\_\_\_\_\_
6. Circle the letter of each sentence that is true about hormones.
  - a. Hormones can regulate only the tissues and organs near the glands that produce them.
  - b. Nerve impulses from the brain can cause the release of hormones.
  - c. In contrast to nerve impulses, hormones cause a slower, but longer-lasting, response.
  - d. Any hormone can affect any organ in the body.
7. A hormone interacts only with certain \_\_\_\_\_, cells that recognize the hormone's chemical structure.

## Functions of Endocrine Glands (pp. 642–644)

Match the endocrine glands with the functions of the hormones they produce.

Glands	Functions of the Hormones
_____ 8. thyroid glands	a. Control changes in a male's body and regulate sperm production
_____ 9. adrenal glands	b. Trigger the body to respond to emergencies
_____ 10. ovaries	c. Helps the development of immune system
_____ 11. testes	d. Control the release of energy from food molecules
_____ 12. thymus	e. Control changes in a female's body that trigger egg development

13. Circle the letter of each sentence that is true about the hypothalamus.
  - a. The hypothalamus links the nervous system and the excretory system.
  - b. The hypothalamus is located on the kidneys.
  - c. The hypothalamus sends nerve messages and produces hormones.
  - d. The hypothalamus plays a major role in maintaining homeostasis.

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**The Endocrine System** *(continued)*

14. What is the pituitary gland?

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15. Is the following sentence true or false? The pituitary gland releases hormones in response to nerve impulses or hormone signals from the hypothalamus. \_\_\_\_\_

**Negative Feedback** (pp. 644–645)

16. How does negative feedback work to control the amount of a hormone in the blood?

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17. Complete the cycle diagram to show how thyroxine, a hormone produced by the thyroid gland, is regulated by negative feedback.

