

Fighting Disease ▪ *Guided Reading and Study*

The Body's Defenses

This section describes how the body protects itself from pathogens.

Use Target Reading Skills

Write a definition of each Key Term in your own words below.

inflammatory response:

phagocyte:

immune response:

lymphocyte:

T cell:

antigen:

B cell:

antibody:

AIDS:

HIV:

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Barriers That Keep Pathogens Out

1. What is the body's first line of defense against pathogens?

2. Complete the table to show the three different ways the body keeps out pathogens.

Barriers Against Pathogens	
Barrier	How It Works
Skin	
Breathing passages	
Mouth and stomach	

The Inflammatory Response

3. The second line of defense in the body is the _____, which occurs when body cells are damaged.

4. What happens in the inflammatory response?

5. The kinds of white blood cells that take part in the inflammatory response are called _____, which engulf pathogens and destroy them.

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The Body's Defenses *(continued)*

6. Why is the affected area red and swollen during the inflammatory response?

7. How does a fever help your body?

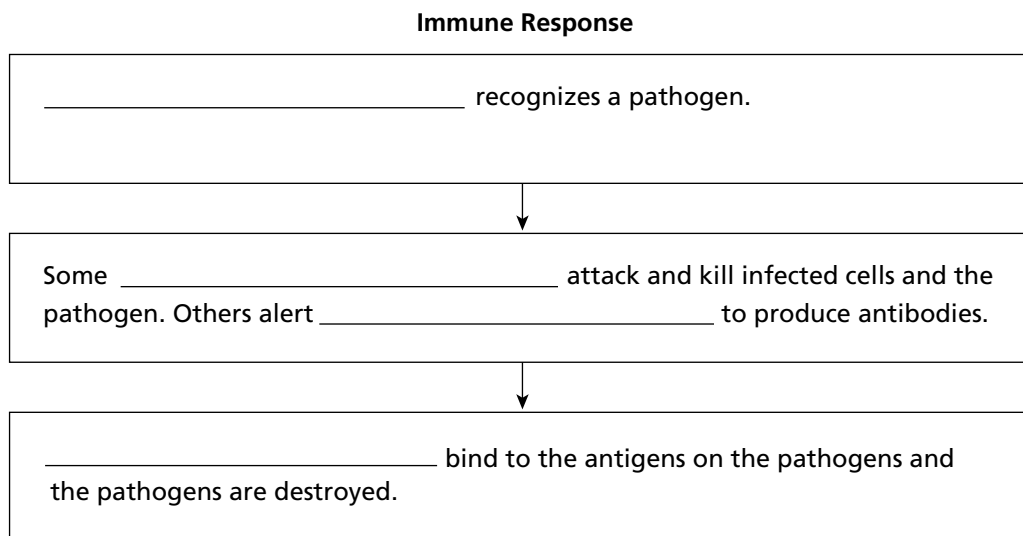
The Immune System

8. The third line of defense against pathogens in the body is the _____.

9. List the two major kinds of lymphocytes.

a. _____ b. _____

10. Complete the flowchart to show what occurs during the immune response.



11. What can lymphocytes do?

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12. What are antigens?

13. List three ways that antibodies help destroy pathogens.

- a. _____
- b. _____
- c. _____

AIDS

14. What causes acquired immunodeficiency syndrome, or AIDS?

15. Once HIV enters the body, it enters _____ where it reproduces.

16. Is the following sentence true or false? Over time, HIV damages the immune system, and the body loses its ability to fight disease.

17. Circle the letter of each sentence that is true about how HIV is spread.

- a. HIV may spread from an infected woman to her baby through breast milk.
- b. HIV is *not* spread by sexual contact.
- c. HIV is spread by shaking hands.
- d. HIV is *not* spread by using a toilet seat after it has been used by someone with HIV.