

CHAPTER **42** IMMUNITY FROM DISEASES

Section 42.2 Defense Against Infectious Diseases
Complete the Idea Map

Read the paragraphs in the boxes. Then use the **BOLDED** words in the paragraphs to complete the idea map.

Remember—infectious diseases are caused by pathogens. Pathogens may come in the form of viruses, bacteria, or other agents. Our bodies have two types of defenses against pathogens: (1) innate—nonspecific—defenses that are immediately ready to fight all pathogens, and (2) adaptive—specific—defenses that gear up to fight against particular pathogens.

Our **skin** is one nonspecific defense. It acts like the walls of a castle to keep all foreign intruders out of our body. Our body fluids also serve as nonspecific defenses. Body fluids such as **mucus**, **sweat**, **tears**, **saliva**, and **stomach acid** trap or destroy pathogens. Pathogens that get past our skin and body fluids are attacked by the nonspecific defenders found in the bloodstream. These defenders are certain types of **white** blood cells and **proteins**.

While the nonspecific defenses fight pathogens, the specific defenses prepare to join the battle. After several days, the body will begin to **recognize** the pathogens as intruders. The body then adapts with specific defenses, including **antibodies** and **T cells**, that identify and destroy particular pathogens.

