

Types of foreign substance:

- 1. _____: substance that your body does not recognize; may cause disease
- 2. _____: substance that causes disease

Ways of transmitting disease:

- 1. _____
- 2. _____
- 3. _____
- 4. _____

Name:

Date:

Block:

Many pathogens can be stopped by...

First Line of Defense: Protective barrier

- _____: a physical barrier that prevents pathogens from entering the body
- _____: directs moisture (like rain and sweat) away from eyes to prevent irritation and infection
- _____: acidic substance that can break down pathogens that are swallowed
- _____: contains enzymes that can break down the cell wall of bacteria
- _____: helps to filter out dust, pollutants, and microbes

This is part of the _____ immune response.

If a pathogen enters into the body...

_____ Line of Defense

- Response is _____, quick, and general
- _____ is a response where the tissues are damaged and respond to the stimuli. White blood cells go to the site of the pathogen. Swelling, redness, heat, and pain results
- _____ helps to increase rate of tissue repair and prevents bacterial growth.

This is part of the _____ immune response.

_____ Line of Defense

- Response is _____ and _____

This is part of the _____ immune response.

1. _____ Cells

Sends signals to B Cells to produce antibodies

2. _____ Cells

Recognizes the antigen and produces _____

3. _____ Cells

Attacks and destroys the pathogens that are marked by antibodies

_____ Cells (Phagocytes)

Ingest and destroy all pathogens it encounters

Antigens are destroyed and the body is protected.

Word bank:

- Acquired
- Animal Bites
- Antibodies
- Antigens
- B
- Direct
- Direct contact
- Eyelashes
- Fever
- Food and Water
- Helper T
- Indirect contact
- Inflammation
- Innate
- Innate
- Killer T
- Non-specific
- Nose hairs
- Pathogens
- Saliva
- Second
- Skin
- Specific
- Stomach acid
- Third
- White blood