

**Name:** \_\_\_\_\_ **Date:** \_\_\_\_\_

## **Pathogen Protection: Prevail and Prevent for 7th Grade**

Evaluate how chain of infection disruptions and community interventions like herd immunity effectively control the transmission of communicable diseases.

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**1. Which transition in the 'Chain of Infection' is disrupted when a person uses a high-efficiency particulate air (HEPA) filter to trap airborne fungal spores?**

- A. The Susceptible Host
- B. The Reservoir
- C. The Mode of Transmission
- D. The Portal of Entry

**2. The public health concept of \_\_\_\_\_ occurs when a large percentage of a population becomes immune to a disease, making its spread unlikely even for those who aren't vaccinated.**

- A. Pathogen Partitioning
- B. Herd Immunity
- C. Antibiotic Resistance
- D. Vector Control

**3. A zoonotic disease is one that is specifically defined by its ability to spread from animals to humans.**

- A. True
- B. False

**4. In the 1850s, John Snow mapped cholera cases in London to a specific water pump. This study of how and why diseases distribute in a population is called:**

- A. Microbiology
- B. Epidemiology
- C. Pathology
- D. Immunology

**5. To prevent the spread of foodborne pathogens like Listeria, the process of \_\_\_\_\_ involves heating liquids to a specific temperature to kill harmful microbes.**

- A. Carbonation
- B. Pasteurization
- C. Oxidation
- D. Hydration

**6. Antibiotics are an effective treatment for preventing the spread of the Rhinovirus, which causes the common cold.**

- A. True
- B. False

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**7. Which of these is considered a 'non-communicable' disease, meaning it cannot be caught through social contact or hygiene failures?**

- A. Tuberculosis
- B. Malaria
- C. Asthma
- D. Norovirus

**8. When a person recovers from a disease and their body produces \_\_\_\_\_ proteins to recognize and fight that specific pathogen in the future, they have developed active immunity.**

- A. Antibody
- B. Hormone
- C. Enzyme
- D. Hemoglobin

**9. Properly sanitizing shared equipment in a gym is a preventative measure designed to stop indirect contact transmission.**

- A. True
- B. False

**10. Which biological defense mechanism acts as the first line of 'innate' immunity to prevent pathogens from even entering the bloodstream?**

- A. White blood cells
- B. Inflammation
- C. Cilia and mucus membranes
- D. Fever response