

Student Exploration: Disease Spread

Vocabulary: disease, epidemic, infect, infectious disease, pathogen

Prior Knowledge Questions (Do these BEFORE using the Gizmo.)

1. Why do you think it is important to cover your mouth when you cough? So, we don't spread germs from our saliva. Also avoid covering you cough with your hands because you touch many things.
2. Why should you always wash your hands before you eat? So, your germs aren't transferred from your hands to your mouth.

Gizmo Warm-up

When a person has a **disease**, his or her normal body functions are disrupted. Some diseases, such as diabetes and most cancers, are not spread from one person to another. But other diseases, such as the flu and strep throat, can be spread. These diseases are known as **infectious diseases**. Infectious diseases are caused by viruses, bacteria, and other agents known as **pathogens**.

In the *Disease Spread* Gizmo, you will be able to observe how various pathogens can spread through a group of people. Click **Play** (▶) and observe.



1. Describe what happened on the SIMULATION pane: When the individuals moved around and interacted with each other some developed a foodborne illness.
2. Look at the color key on the bottom right of the Gizmo. What is happening when a person changes color? Airborne was blue, foodborne was green, and person to person was purple.

Activity A:

Person-to-person transmission

Get the Gizmo ready:

- Click **Reset** (↺).
- On the **CONTROLS** tab under **Active Diseases**, turn off **Foodborne** and turn on **Person to person**.
- Set the **Number of people** to 5.



Question: What factors affect how quickly a pathogen spreads from person to person?

The Spread Of Pathogens Answer Key

Sandy Fritz



The Spread Of Pathogens Answer Key:

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tradition and applies it to critical thinking The step by step organization throughout continually reinforces critical thinking and analysis Section One reinforces fundamental concepts and principles pertinent to nursing practice and demonstrates how learned knowledge is applied to patient care situations Section Two helps readers prioritize and make sound clinical decisions The nursing process is included in this section Section Three presents clinical situations using an intershift report format Relevant and irrelevant information is provided to encourage analyzing and interpreting data based on the presenting situation Includes flow charts to assist in gathering further data Answers for selected case studies are provided in Section Four Ten new case studies have been added to further emphasize leadership and management including key areas such as delegation Test questions are included with selected case studies to test content knowledge and to prepare students for examinations

Nurse Assistant Training American Red Cross,2002 *Science Interactions* Robert W. Avakian,1995-07-17 *The Australian Grapegrower & Winemaker* ,2001 **Swine Health & Epidemiology Report** ,2002

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