

<b>Topic/Objectives:</b> 9-3 Human Immunity; (1) Explain the basic functions of the human immune system, (2) differentiate between specific and non-specific immune response, (3) understand how vaccines and antibiotics prevent infectious diseases.	<b>Name:</b>
	<b>Date:</b>
	<b>Period:</b>

**Essential Question:** How does a person's immune system prevent the development and spread of infectious diseases?

<b>Questions:</b>	<b>Notes:</b>
	<p>_____ do not discriminate between one threat or another.</p> <p>Types of nonspecific defenses include:</p> <ul style="list-style-type: none"> <li>◦ Skin – provides a _____ to keep pathogens from directly entering the body.</li> <li>◦ _____ response – blood vessels expand and white blood cells move into the infected tissue.</li> <li>◦ _____ – body temperature increases to make conditions less hospitable for the pathogen.</li> <li>◦ Interferons – proteins produced by the body that interfere in _____ replication.</li> </ul>
	<p>_____ attack a particular disease-causing agent causing an immune response.</p> <ul style="list-style-type: none"> <li>◦ An _____ is a substance that triggers a specific immune response.</li> <li>◦ _____ are proteins that recognize and bind to a specific antigen.</li> </ul>
	<p>After a person is infected they have what is known as acquired immunity</p> <ul style="list-style-type: none"> <li>◦ _____ occurs when a person is exposed to an antigen.               <ul style="list-style-type: none"> <li>◦ Natural active immunity occurs when you are _____ exposed to a pathogen and your body fights off the infection.</li> <li>◦ Artificial active immunity occurs when you are deliberately exposed to a modified, less harmful version of a pathogen and your body fights off the infection (_____).</li> </ul> </li> <li>◦ _____ occurs when a person is provided antibodies from other individual.               <ul style="list-style-type: none"> <li>◦ Natural passive immunity includes antibodies provided to the fetus during _____ or during infancy during breastfeeding.</li> <li>◦ Artificial passive immunity occurs when a person is given _____ from another organism or individual for temporary immunization.</li> </ul> </li> </ul>

[illegible]