

<b>B5- Infections</b>	<b>Answer</b>
<b>1. What is a pathogen?</b>	<b>A microorganism that can cause disease.</b>
<b>2. List the four main groups of pathogens</b>	<b>bacteria, viruses, protists and fungi</b>
<b>3. How can pathogens be spread?</b>	<b>They can be spread by direct contact, by water or by air.</b>
<b>4. List the ways in which the spread of disease can be reduced or prevented</b>	<b>1.simple hygiene measures 2.destroying vectors 3.isolation of infected individuals 4. vaccination</b>
<b>5. How do bacteria multiply?</b>	<b>Bacteria multiply by simple cell division</b>
<b>6. Name some diseases caused by bacteria</b>	<b>food poisoning cholera typhoid whooping cough</b>
<b>7. Where in the body do viruses live and reproduce?</b>	<b>Viruses live and reproduce inside cells, causing damage</b>
<b>8. Name some diseases caused by viruses</b>	<b>influenza (flu) colds measles mumps rubella chicken pox AIDs.</b>
<b>9. What does a vaccine contain?</b>	<b>A vaccine contains a small amount of dead or inactive pathogens</b>
<b>10. Who discovered penicillin?</b>	<b>Fleming</b>
<b>11. What are new drugs tested for?</b>	<b>New drugs are tested for toxicity, efficacy and dose.</b>
<b>12. What is a placebo?</b>	<b>A placebo is a substance that does not contain an active drug ingredient. (a fake drug/medicine)</b>
<b>13. How do white blood cells help to defend against pathogens?</b>	<b>White blood cells help to defend against pathogens by:</b> <ul style="list-style-type: none"> <li>• phagocytosis</li> <li>• antibody production</li> <li>• antitoxin production</li> </ul>
<b>14. How does immunity work?</b>	<b>Immunity allows a person to produce specific antibodies quickly to prevent infection.</b>
<b>15. What is meant by the term 'herd immunity'</b>	<b>A large percentage of a population has become immune to an infection, therefore providing a measure of protection for individuals who are not immune.</b>