



This half term: Skills, Knowledge and Understanding to be developed:

Skills (students WILL BE ABLE to by the end of the Learning Programme): Define the following terms: pathogenic, infectious, carrier, disease reservoir, endemic, epidemic, pandemic, vaccine, antibiotic, antigen, antibody, resistance, vector, toxin, antigenic type.

Knowledge (students WILL KNOW by the end of the Learning Programme): of the human body acts as a host to other living organisms in a symbiotic or parasitic relationship; the relationship between the pathogenicity of viruses and their mode of reproduction; how bacterial and viral infections can be controlled; the role of the immune system in combating infection.

Understanding (students WILL DEMONSTRATE their understanding): of the principles of the cell-mediated and humoral immune response.

Key Terms / Words:
 pathogenic,
 infectious, carrier,
 disease reservoir,
 endemic, epidemic,
 pandemic, vaccine,
 antibiotic, antigen,
 antibody, resistance,
 vector, toxin,
 antigenic types

LP 5 – Week 1&2 Learning Outcomes:

- Students will be able to describe the natural barriers in the body which reduce the risk of infection, including natural skin flora, connective tissue, localised inflammation, phagocytosis, clotting, tears, mucus and ciliated epithelium
- Students will be able to describe how specific immune responses are developed as a result of exposure to foreign antigens
- Students will be able to explain the humoral immune response, involving the production and secretion of antigen-specific antibodies
- Students will be able to explain that cell-mediated immunity, by direct cell contact involving the destruction of pathogens, infected cells and cancerous cells
- Students will be able to explain the role of T lymphocytes and B lymphocytes in cell-mediated and humoral immune responses.

Success Criteria
 Students will demonstrate their knowledge and understanding of the key terms, definitions and principles of an immune response by answering WJEC examination questions.

Homework LP5 2/4
 Read ahead in preparation for the leaning on immunology and disease.

LP 5 – Week 3&4 Learning Outcomes:

- Students will be able to explain that specific immune responses are induced naturally or artificially to produce an active, long-lived response or are acquired passively resulting in short-term protection.
- Students will be able to describe the principles of the active immune response can be used medically to immunise against disease, e.g. rubella, without infection by the pathogen.
- Students will be able to describe how passive immunity can provide rapid, short term protection through antibodies.

Success Criteria
 Students will demonstrate their knowledge and understanding of the key terms, definitions and principles of an immune response by answering WJEC examination questions.

Homework LP5 4/4
 Students will revise for the CDG on the Immune response topic

LP 5 – Week 4&5 Learning Outcomes:

- Students will be able to explain that specific immune responses are induced naturally or artificially to produce an active, long-lived response or are acquired passively resulting in short-term protection.
- Students will be able to apply the principles of immunity to a variety of contexts



CDG

Mark

Grade:

Success Criteria
 Students will demonstrate their knowledge and understanding of the key terms, definitions and principles of an immune response by answering WJEC examination questions.

Homework LP5 5/4



<p>LP 5 – Week 6&7 Learning Outcomes:</p> <ul style="list-style-type: none"><input type="checkbox"/> Students will be able to apply the principles of immunology and disease they have learned to the present COVID-19 pandemic.		<p>Success Criteria Students will demonstrate their knowledge and understanding of the immunological principles underlying COVID-19.</p>	<p>Homework LP5 5/4</p>
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