



|   |             |  |   |
|---|-------------|--|---|
| <p><b>This half term: Skills, Knowledge and Understanding to be developed:</b></p> <p><b>Skills (students <u>WILL BE ABLE</u> to by the end of the Learning Programme):</b><br/>to use theories, models and ideas to develop scientific explanations; use knowledge and understanding to pose scientific questions,</p> <p><b>Knowledge (students <u>WILL KNOW</u> by the end of the Learning Programme):</b><br/>the structure and function of xylem and phloem and how water, salts, sugars and amino acids are transported around the plant.</p> <p><b>Understanding (students <u>WILL DEMONSTRATE THEIR UNDERSTANDING</u> by the end of the Learning Programme):</b> to use theories, models and ideas to develop scientific explanations; analyse and interpret data to provide evidence, recognising correlations and causal relationships;</p>   |             | <p><b>Key Terms / Words:</b></p> <p>pathogenic, infectious, carrier, disease reservoir, endemic, epidemic, pandemic, vaccine, antibiotic, , resistance, vector, toxin, antigenic types</p> |   |
| <p><b>LP 5 – Week 1 &amp; 2 Learning Outcomes:</b></p> <p>Students will be able to</p> <ul style="list-style-type: none"> <li>describe the meaning of the following terms: pathogenic, infectious, carrier, disease reservoir, endemic, epidemic, pandemic, vaccine, antibiotic, antigen, antibody, resistance, vector, toxin, antigenic types</li> <li>describe the human body acting as a host to other living organisms</li> <li></li> </ul> <p>Students will be able to</p> <ul style="list-style-type: none"> <li>describe the following diseases in terms of: the types of organisms; source of infection; tissue affected; mode of transmission; prevention; control methods and treatment, including vaccines: Bacterial infections: cholera; tuberculosis Viral infections: smallpox; influenza Protoctistan infections: malaria</li> <li>Describe the relationship between the pathogenicity of viruses and their mode of reproduction</li> </ul> |             | <p><b>Success criteria:</b></p> <p>discuss the modes of action of antibiotics</p>  | <p><b>Homework LP 5</b></p> <p>Prepare for next lesson<br/><b>Homework 1</b></p> <p>Prepare for CDG</p> |
| <p><b>LP 5 – Week 3 &amp; 4 Learning Outcomes:</b></p> <p>Students will be able to</p> <ul style="list-style-type: none"> <li>Describe the control of bacterial infections by antibiotics,</li> <li>Use specific example to describe the modes of action of antibiotics</li> <li>Explain how the overuse of antibiotics has resulted in the spread of antibiotic resistance amongst pathogenic bacteria.</li> <li>Case study - The Cholera outbreak in London 1854</li> <li>Case study - COVID 19</li> </ul>  |             | <p><b>Success criteria:</b></p> <p>describe diseases using specific examples of epidemics and pandemics</p>  | <p><b>Homework LP 5</b></p> <p>Prepare for next lesson<br/>Prepare for CDG</p>                          |
| <p><b>LP 5 – Week 5, 6 &amp; 7 Learning Outcomes:</b></p> <p><b>Students will complete CDG - Immunology and disease</b></p>   | <p>Mark</p> | <p><b>Success criteria:</b></p> <p>Answer examination questions on immunology and disease</p>  | <p><b>Homework LP 5</b></p>   |
|   |             |  |   |