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| Cycle (2 weeks) | **Content Description** | **Assessment** |
| INSET | | |
| 1 | Cell structure + Practical : Preparing a slide of a human cheek cell and Calibrating an eye piece using a stage micrometer. | End of topic test on Cells |
| 2 | Biological molecules + Practical : Experimenting with different food molecules | End of topic test on Biological molecules |
| 3 | Biological molecules + Practical: Determine unknown food samples by using food tests. |  |
| 4 | Enzymes + Practical : Experimenting with different food molecules | End of topic test on Enzymes |
| 5 | Cell membranes and transport + Onion cell plasmolysis using different concentrations of salt solutions | End of topic test on Cell membranes and transport |
| 6 | The mitotic cell cycle + Investigating the different stages of mitosis using the light microscope and viewing the roots of a dicot plant. | End of topic test on The mitotic cell cycle |
| 7 | Nucleic acids | Quiz on Structure and replication of DNA |
| 8 | Protein synthesis + practicing serial and simple dilution techniques | End of topic test on Nucleic acids and protein synthesis |
| Winter Break | | |
| 1 | Transport in plants + Examining a dicot and a monocot root, stem and leaf under the light microscope. | End of topic test on Transport in plants |
| 2 | Transport in mammals + examining the different layers of the veins and arteries under the microscope and comparing and contrasting the different features with the blood capillaries | End of topic test on Transport in mammals |
| 3 | Gas exchange and smoking + Examining the TS sections of the trachea, bronchus and bronchioles under the light microscope and comparing the tissue components of each | End of topic test on Gas exchange and smoking |
| 4 | Infectious disease | End of topic test on Infectious disease |
| 5 | Immunity | End of topic test on Immunity |
| 6 | Antibodies and vaccination |  |
| Spring Break | | |
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| End of Year | | |
| Additional Notes: | | |