



Curriculum Plan Year 9 Biology combined curriculum
2016

| Autumn Term | Spring Term | Summer Term |
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| <p>1. Cell Biology</p> <ul style="list-style-type: none"> a. Eukaryotes & prokaryotes b. Animal & plant cells c. Cell specialisation d. Cell differentiation e. Cell division f. Transport in cells <p>Required practicals in this module: RPA 1. Use a light microscope to observe, draw and label a selection of plant & animal cells. RPA 3. Investigate the effect of a range of concentrations of salt or sugar solutions on the mass of plant tissue.</p> | <p>2. Organisation</p> <ul style="list-style-type: none"> a. Animal tissues, organs and systems b. Plant tissues, organs and systems <p>Required practicals in this module: RPA 4. Use qualitative reagents to test for a range of carbohydrates, lipids and proteins RPA 5. Investigate the effects of pH on the rate of reaction of amylase enzyme.</p> | <p>3. Infection and response</p> <ul style="list-style-type: none"> a. Communicable diseases b. Variation and evolution <p>Required Practical Activities in this module: None</p> <p>4. Bioenergetics</p> <ul style="list-style-type: none"> a. Photosynthesis <p>5. Ecology</p> <ul style="list-style-type: none"> a. Adaptations, interdependence and competition b. Organisation of an ecosystem c. Biodiversity and the effect of human interaction on ecosystems <p>Required practical activities in this module: RPA 6. - Investigate the effect of light intensity upon the rate of photosynthesis using an aquatic plant.</p> |
| <p>HALF TERM</p> | | |

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