

OREL VINE SCHOOL

Course Outlines

Year 7

Cambridge Lower Secondary Science

BIOLOGY

<i>Term I</i>		<i>Term II</i>		<i>Term III</i>	
<i>Topic/Subtopic</i>	Objectives	<i>Topic/Subtopic</i>	Objectives	<i>Topic/Subtopic</i>	Objectives
Unit 7.1 Cells <i>(10 hours)</i>	<ul style="list-style-type: none"> • 7Bs.01 Understand that all organisms are made of cells and microorganisms are typically single celled. • 7Bs.02 Identify and describe the functions of cell structures (limited to cell membrane, cytoplasm, nucleus, cell wall, chloroplasts, mitochondria and sap vacuole). • 7Bs.03 Explain how the structures of some specialised cells are related to their functions (including red blood cells, neurones, ciliated cells, root hair cells and palisade cells). • 7Bs.04 Describe the similarities and differences between the structures of plant and animal cells. • 7Bs.05 Understand that cells can be grouped together to form tissues, organs and organ systems. 	Unit 7.4 Classifying life (10 hours)	<ul style="list-style-type: none"> • 7Bp.01 Describe the seven characteristics of living organisms. • 7Bp.02 Discuss reasons for classifying viruses as living or non-living. • 7Bp.03 Describe a species as a group of organisms that can reproduce to produce fertile offspring. • 7Bp.04 Use and construct dichotomous keys to classify species and groups of related organisms. 	Unit 7.7 Environment and ecosystems (12 hours)	<ul style="list-style-type: none"> • 7Be.01 Know and describe the ecological role some microorganisms have as decomposers. • 7Be.02 Construct and interpret food chains and webs which include microorganisms as decomposers. • 7ESc.01 Describe the water cycle (limited to evaporation, condensation, precipitation, water run-off, open water and groundwater).

Resources

- Cambridge Lower Secondary Science Stage 7 Student's work book.
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- Cambridge Lower Secondary Science past papers
- LMS e-learning platform.

Methodology

- Discovery method
- Experimentation
- Field study
- Integration of Information technology (IT)
- Research work
- Use of primary and secondary data from various sources

Mode of assessment

- Daily exercises from the course book
- End of month tests
- End of unit tests set from Cambridge Lower Secondary Science Stage 7 past papers
- Mid - term & end of term assessments
- Quizzes and assignments on the LMS
- Weekly homework assignments