

OREL VINE SCHOOL

Course Outline

Cambridge IGCSE (Year 10)

BIOLOGY

<i>Term I</i>		Term II		Term III	
<i>Topic/Subtopic</i>	Contents	<i>Topic/Subtopic</i>	Contents/Objectives	<i>Topic/Subtopic</i>	Contents/Objectives
<i>Characteristics and classification of living organisms</i> <i>(8 hours)</i>	<ul style="list-style-type: none"> • Characteristics of living organisms • Concept and uses of classification systems • Features of organisms 	<i>Enzymes</i> <i>(8 hours)</i>	<ul style="list-style-type: none"> • Enzymes 	<i>Transport in animals</i> <i>(4 hours)</i>	<ul style="list-style-type: none"> • Circulatory systems • Heart • Blood vessels • Blood
<i>Organisation of the organism.</i> <i>(3 hours)</i>	<ul style="list-style-type: none"> • Cell structure • Size of specimens 	<i>Plant nutrition</i> <i>(3 hours)</i>	<ul style="list-style-type: none"> • Photosynthesis • Leaf structure 	<i>Diseases and immunity</i> <i>(4 hours)</i>	<ul style="list-style-type: none"> • Diseases and immunity
<i>Movement into and out of cells</i> <i>(5 hours)</i>	<ul style="list-style-type: none"> • Diffusion • Osmosis • Active transport 	<i>Human nutrition</i> <i>(4 hours)</i>	<ul style="list-style-type: none"> • Diet • Digestive system • Physical digestion • Chemical digestion • Absorption 	<i>Gas exchange in humans</i> <i>(4 hours)</i>	<ul style="list-style-type: none"> • Gas exchange in humans
<i>Biological molecules</i> <i>(4 hours)</i>	<ul style="list-style-type: none"> • Biological molecules 	<i>Transport in plants</i> <i>(4 hours)</i>	<ul style="list-style-type: none"> • Xylem and phloem • Water uptake • Transpiration • Translocation 	<i>Respiration</i> <i>(4 hours)</i>	<ul style="list-style-type: none"> • Respiration • Aerobic respiration • Anaerobic respiration

Resources

- Cambridge International IGCSE Biology Course book second edition
- Cambridge IGCSE Biology past papers
- Cambridge IGCSE Chemistry past papers
- Ezy Education 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 IGCSE Biology past papers
- Mid - term & end of term assessments
- Quizzes and assignments on the LMS
- Weekly homework assignments
- Ezy education e - learning platform.