

**KOTHARI INTERNATIONAL SCHOOL**

**REVISED ANNUAL ACADEMIC PLAN 2020-21**

**SUBJECT: BIOLOGY**

**CLASS:11**

**TEACHER: SUMATI MISHRA**

Total Marks : 100 (Theory 70 + Practical 30)

Total Periods Theory 160 + Practical 20

<b>S.NO.</b>	<b>TOPIC</b>	<b>SUB TOPIC</b>	<b>PERIOD (40 MINUTES)</b>
April	Cell: The unit of life	Cell Theory An over view of the cell, prokaryotic and Eukaryotic Cell  <b>Observing Permanent slides of cell division</b>	3 Blocks
June	Biomolecules Cell Cycle and Cell Division  <b>Practical</b>	<b>Observing Permanent slides of cell division</b>  How to analyse chemical composition? Primary and Secondary molecules, Proteins, Nucleic acids, Polysachharides, Nature of bonds linking monomers.Metabolic basis of life, Enzymes.  <b>To do the confirmatory test for the presence of proteins , sugars and fat</b>	5 Blocks+ I

July	<p><b>Practical</b> Breathing and exchange of gases Body fluids and circulation Excretory products and their elimination Locomotion and movement Neural control and coordination Chemical coordination and integration</p> <p><b>Practical</b></p>	Mitosis , Meiosis, Significance of Mitosis and Meiosis	6 Blocks
		<p><b>Making a temporary mount of the onion root tip and observe</b></p>	3 Blocks
		<p>How to analyse chemical composition? Primary and Secondary molecules, Proteins, Nucleic acids, Polysachharides, Nature of bonds linking monomers.Metabolic basis of life, Enzymes.</p> <p><b>To do the confirmatory test for the presence of proteins , sugars and fat</b></p>	
		Mitosis , Meiosis, Significance of Mitosis and Meiosis	
		<p>Mechanism of breathing , transportation of gases, Regulation of respiration Disorders of respiratory system</p> <p>Human excretory system, Urine formation, Functions of tubules, Mechanism of concentration of the filtrate, Mictutrition, Role of other organs in excretion, Disorders of excretory system</p>	4 Blocks +1
			6 Blocks

		<b>Blood , Lymph, Circulatory pathways, Regulation of Cardiac activity, Disorders of circulatory system In the laboratory</b>	4 Blocks
August	Morphology of flowering plants  <b>Practical</b>	Description of important families.  <b>To dissect the given sample of flower to study its salient features. Observing the pollen grains and the ovary of the flower under the microscope.</b>	6 Blocks
	Structural organization in animals  <b>Practical</b>	Animal tissues,.  <b>To observe the specimens of animals and plants species in the laboratory. To understand reasons for identification.</b>	4 Blocks
			8 Blocks



October	Respiration in plants.	Glycolysis, Fermentation, Aerobic respiration, The respiratory Balance Sheet, Amphibolic Pathway, Respiratory Quotient	2+4 Blocks
November	The living world Biological Classification	Diversity in the living world, Taxonomic categories	5 Blocks
December	Plant Kingdom Animal Kingdom  <b>Practical</b>	Kingdom Monera, Protista, Fungi, Plantae, Animalia  Algae, Bryophytes, Pteridophytes, Gymnosperm and Angiosperm  Basis of Classification , Classification of animals  <b>To observe the specimens and the permanent slides of animals in the laboratory</b>	6 Blocks        6 Blocks

January	<b>REVISION</b> <ul style="list-style-type: none"><li>• <b>BRIEF EXPLANATION OF ALL TOPICS</b></li><li>• <b>ONE on ONE QUERIES SOLVING CLASSES</b></li><li>• <b>SAMPLE PAPERS PREPARATION</b></li><li>• <b>PREPARATION OF PRACTICALS</b></li><li>• <b>DIGRAM PRACTICE</b></li><li>• </li></ul>
	<b>The examination dates/schedule will be informed to students as and when they get finalized keeping the pandemic on mind</b>