ST.THOMAS SCHOOL, DHURWA, RANCHI -4

SYLLABUS IN DETAIL

(Syllabus divided for Terms and Month)

CLASS: IX **NAME OF THE BOOK: CONCISE BIOLOGY IX (Selina publication)**

SUBJECT: BIOLOGY **TOTAL NO. OF PERIODS IN EACH TERM: 1ST Term (49 days)**

2nd Term (67 days) 3rd Term (67 days)

TERM/MONTH/WEEK	NO.OF PERIODS IN WEEK	CHAPTER NO.	NAME OF THE CHAPTER	TOPIC
First Term April to July 1st week 8/4 – 9/4 2nd week 12/4 – 16/4 3rd week 19/4 – 23/4	 2 2 2	8	Five Kingdom Classification	A. brief outline of the five kingdom classification. Nomenclature Main characteristics. Features of each kingdom and their phylum with examples and summary of classification
4th week 26/4 – 30/4 5th week 3/5 -7/5	2	9	Economic Importance of bacteria	Bacteria – Shape Size, structure Movement, nutrition, respiration, reproduction. Role in medicine, antibiotics serum and vaccine, agriculture and industry.
6th week 10/5 – 13/5	2	10	Nutrition	Classes of nutritionists, balanced diet, essential
7th week 14/6 – 18/6 8th week 21/6 – 25/6 9th week 28/6 – 2/7	2 2 2	11	Digestive System	Organs of digestive system dentition , structure of a tooth, Salivary glands and its function Process of digestion, Absorption, Assimilation experiments on digestion
Second Term July – October 1st week 21/7 – 23/7 2nd week 26/7 – 30/7 3rd week 2/8 – 6/8		7	Respiration in Plants	Brief idea of krebs cycle and glycolysis, kinds of respiration, experiments based on respiration in plants, respiration opposite of photosynthesis
4th week			Skeleton	Function of skeleton.

9/8 – 13/8 5thweek 16/8 – 20/8 6th week 23/8 – 27/8		12	Movement and Locomotion	Constituents & classification of bone, division of skeleton, classification of joints. Function and kind of muscles.
7thweek 3/8 – 3/9 8th week 6/9 – 10/9 9th week 13/9 – 16/9		13	Skin – The Jack of all Trades	Structure and function of skin, derivatives of skin, skin - The heat regulation of the body temperature regulation
10th week 20/9 – 24/9 11th week 27/9 – 1/10 12th week 4/10 – 8/10 13th week 18/10		14	The respiratory system	Need, Kind, Chemical steps and parts of respiration respiratory organs and process respiratory cycle, capacity of lungs and experiments based on breathing and respiration
Third Term Nov – Feb 1st week 8/11 – 12/11 2nd week 16/11 – 18/11		1 4	Cell Absorption by roots – the process involved	Structure and function Need, absorption and conduction of water and minerals, osmotic pressure, turgidity and flaccidity and its uses, root pressure. Experiments based on absorption and conduction of water in the plants.
3rd week 22/11 – 26/11 4th week 29/11 – 3/12		5	Transpiration	Demonstration, measurement, kind, factors, adaptation and significance of transpiration, guttation and bleeding.
5th week 6/12 – 10/12 6th week 13/12 – 17/12		6	Photo synthesis	Importance, process of photo synthesis. Regulation of stomata opening for letting in co_2, phases of photosynthesis, Adaptations in leaf, factors affecting photosynthesis, experiments based on photosynthesis & carbon cycle.
7th week 20/12 – 22/12 8th week		7	Chemical coordination in plants	Plant hormones and its function, tropic movements in plants

3/01 – 7/01				
9th week **10/1 – 13/1** **10th week** **17/1 – 21/1** **11th week** **24/1 – 28/1** **12th week** **31/1 – 4/2** **13th week** **7/2 – 8/2**		**14** **16**	**Human evolution** **Pollution- A rising environmental problem**	**Theories of evolution and Human evolution** **Waste, Type of pollution and its sources, radiation, Effects of various types of pollution, vehicular standards, clean India movement** **Revision**