



SARALA BIRLA PUBLIC SCHOOL



Mahilong, Ranchi-Purulia Road Highway,
Ranchi – 835103, Jharkhand

SYLLABUS (2019-20)

STD – XII(SCIENCE)

Name : _____

UID No. : _____

Class and Section : _____

Subject: ENGLISH (301)

Prescribed Books:	1)	ENGLISH TEXT BOOK (FLAMINGO) - NCERT
	2)	VISTAS (SUPPLEMENTARY READER) - NCERT
Month	Periods	Lesson/Chapter
April	21	FLAMINGO-The Last Lesson; My Mother at Sixty-six VISTAS-The Third Level; The Tiger King Notice Writing, Advertisements and Posters
May	8	FLAMINGO- Lost Spring; An Elementary School in a Slum VISTAS- Journey to the End of the Earth Note Making & Summary Writing
June	15	FLAMINGO-Indigo; Deep Water Formal & Informal Invitations and Replies Article Writing, Speech Writing
July	22	VISTAS-On the Face of it; Official & Business Letters, letter to the Editor, Letter for Job Application and Bio-Data
August	20	FLAMINGO-Keeping Quiet; Going Places VISTAS-The Enemy; Should Wizard Hit Mommy
September	19	Revision Half yearly exams
October	13	FLAMINGO- The Rattrap, A Thing of Beauty, A Roadside Sand VISTAS- Evans Tries An O- Level
November	17	FLAMINGO- Aunt Jennifer's Tigers, Poets and Pancakes, The Interview VISTAS- Memories of Childhood Debate writing, Report Writing
December	19	Revision
January	18	Revision
Syllabus for Term Exams and Periodic Test		
TERM-1		
Periodic Test 1 (22.04.19)	Unseen Passage; Notice writing; Advertisements, The Last Lesson, My Mother at Sixty- Six	
Periodic Test – 2 (01.07.19)	Unseen Passage(note making and summary writing), Article, Formal Invitation, Lost Spring; An Elementary School in a Slum, Journey to the End of the Earth	
Periodic Test 3 (14.10.19)	Unseen passage(note making and summary writing); Official & Business Letters, Letters for Job Application and Bio-Data; Keeping Quiet; Going Places; The Enemy.	

Half yearly exam	PORTION TAUGHT FROM APRIL TO AUGUST
	Distribution of Marks: READING: 20 MARKS WRITING: 30MARKS LITERATURE: 30MARKS ASL: 20 MARKS

Annual Exam	COMPLETE SYLLABUS
	Weightage of Marks: READING: 20 MARKS WRITING: 30MARKS LITERATURE:30MARKS ASL: 20 MARKS

Subject: Physics

Prescribed Books:	1)	NCERT Textbook (Part 1 & Part 2)
	2)	NCERT Exemplar
	3)	Physics Practical Book – Laxmi Publication
Month	Periods	Lesson/Chapter
April	21	Unit -1 Chapter 1 : Electric Charges And Fields Chapter 2 : Electrostatic Potential And Capacitance
May	20	Unit -2 Chapter 3 : Current Electricity
June	22	Unit - 3 Chapter 4 : Moving Charges And Magnetism Chapter 5 : Magnetism And Matter
July	18	Unit - 4 Chapter 6 : Electromagnetic Induction Chapter 7 : Alternating Current Unit - 5 Chapter 8 : Electromagnetic Waves
August	25	Unit - 6 Chapter 9 : Ray Optics And Optical Instruments Chapter 10: Wave Optics
September	10	Revision + Half Yearly Exam
October	16	Unit - 7 Chapter 11 : Dual Nature Of Radiation And Matter Unit- 8

		Chapter 12 : Atoms Chapter 13 : Nuclei
November	26	Unit - 9 Chapter 14 : Semiconductor ,Electronics : Materials, Devices and simple circuits
December	20	Revision + Pre-Board 1
January	18	Pre-Board 2
February		Board Practical Exam
March		Board Exam
Syllabus for Term Exams and Periodic Test		
TERM-1		
Periodic Test	1) Chapter 1 : Electric Charges And Fields Chapter 2 : Electrostatic Potential And Capacitance	
	2) Chapter 3 : Current Electricity Chapter 4 : Moving Charges And Magnetism	
TERM-2 (Annual)		
Periodic Test	3) Chapter 10: Wave Optics Chapter 11 : Dual Nature of Radiation And Matter	
Activities	1) Record of at least 15 experiments (with a minimum of six from each section)	
	2) Record of at least 5 activities with a minimum of two, each from section A & section B	
	3) Investigatory Project- Working model and handwritten report of the project	
Term 1	Chapter 1 : Electric Charges And Fields	
	Chapter 2 : Electrostatic Potential And Capacitance	
	Chapter 3 : Current Electricity	
	Chapter 4 : Moving Charges And Magnetism	
	Chapter 5 : Magnetism And Matter	
	Chapter 6 : Electromagnetic Induction	
	Chapter 7 : Alternating Current	
	Chapter 8 : Electromagnetic Waves	
Chapter 9 : Ray Optics And Optical Instruments		
Annual Exam	Whole syllabus	

Subject : CHEMISTRY(043)

Prescribed Books:	1)	NCERT Text Book (Part 1+ Part 2)
	2)	Chemistry Practicals- Dinesh Publication (Lab Book)
Month	Periods	Lesson/Chapter
April	21	Ch:10-Haloalkanes & Haloarenes Ch:11-Alcohols, Phenols & Ethers
May	15	Ch:12-Aldehydes, Ketones & Carboxylic acids Ch:13-Amines
June	14	Ch:14-Biomolecules Ch:15-Polymers Ch:16-Chemistry in everyday life
July	22	Ch:1-Solid State Ch:2-Solution
August	21	Ch:3- Electrochemistry Ch:4-Chemical Kinetics Ch:5- Surface Chemistry
September	19	Revision & Half Yearly Exam
October	17	Ch:9-Coordination Compounds Ch:8- d- & f-block elements
November	15	Ch:7- p-block elements Ch:6- General principle & processes of isolation of elements
December	20	Pre Board/Revision
January	18	Pre Board/Revision/Practical Exam(Board)
February	20	Practical Exam (Board)
March	19	Final Exam (Board)
Syllabus for Term Exams and Periodic Test		
TERM-1		
Periodic Test	Ch:10-Haloalkanes & Haloarenes Ch:11-Alcohols, Phenols & Ethers	
	Ch:1-Solid State Ch:2-Solution	
TERM-2 (Annual)		
Periodic Test	Ch:9-Coordination Compounds Ch:8- d- & f-block elements	
Term 1	Ch:1-Solid State Ch:2-Solution	
	Ch:3- Electrochemistry Ch:4-Chemical Kinetics Ch:5- Surface Chemistry	

	Ch:12-Aldehydes, Ketones & Carboxylic acids Ch:13-Amines Ch:14-Biomolecules Ch:15-Polymers Ch:16-Chemistry in everyday life
Annual Exam	Complete Syllabus.

Subject: Mathematics

Prescribed Books:	1)	NCERT
	2)	NCERT Exemplar
Month	Total No. of periods	Lesson/Chapter
April		Ch.-3 Matrices, Ch.-4 Determinants, Ch.-1 Relations and Functions
May		Ch.-2 Inverse Trigonometric Functions
June		Ch.-5 Continuity and Differentiability, Ch.-6 Application of Derivatives
July		Ch.-6 Application of Derivatives cont..., Ch.-7 Integrals
August		Ch.-8 Application of Integrals, Ch.-9 Differential Equations
September		Revision + Half Yearly Exam
October		Ch.-10 Vector Algebra, Ch.-11 Three Dimensional Geometry
November		Ch.-12 Linear Programming, Ch.-13 Probability
December		Pre-board Revision
January		
Syllabus for Term Exams and Periodic Test		
TERM-1		
Periodic Test	1) Ch.-3 Matrices	
	2) Ch.-4 Determinants, Ch.-1 Relations and Functions	
TERM-2 (Annual)		
Periodic Test	3) Ch.-9 Differential Equations	
Term 1	Ch.-1 Relations and Functions, Ch.-2 Inverse Trigonometric Functions	
	Ch.-3 Matrices, Ch.-4 Determinants	
	Ch.-5 Continuity and Differentiability, Ch.-6 Application of Derivatives	
	Ch.-7 Integrals, Ch.-8 Application of Integrals, Ch.-9 Differential Equations	
Annual Exam	Ch.-1 Relations and Functions, Ch.-2 Inverse Trigonometric Functions, Ch.-3 Matrices	
	Ch.-4 Determinants, Ch.-5 Continuity and Differentiability, Ch.-6 Application of Derivatives	

	Ch.-7 Integrals, Ch.-8 Application of Integrals, Ch.-9 Differential Equations
	Ch.-10 Vector Algebra, Ch.-11 Three Dimensional Geometry
	Ch.-12 Linear Programming, Ch.-13 Probability

Subject: BIOLOGY

Prescribed Books:	1)	A Textbook of Biology-NCERT
	2)	Xam Idea-VK Global Publications
	3)	NCERT EXEMPLER
	4)	Biology Practical-Lakshmi Publication
Month	Periods	Lesson/Chapter
April	15	Reproduction in organisms, Sexual reproduction in flowering plants.
May	10	Sexual reproduction in flowering plants ,Human reproduction
June	15	Reproductive health, Heredity and variation
July	30	Molecular basis of Inheritance, Evolution
August	30	Biotechnology-Principles , Processes and applications
September		Revision + Half Yearly Exam
October	30	Ecology and Environment
November	30	Biology in Human Welfare
December		Revision + Pre Board
January		Pre Board
February		
March		Board Exam
Syllabus for Term Exams and Periodic Test		
TERM-1		
Periodic Test	1) PT 1: Unit VI(Reproduction)	
	2) PT 2: Unit VII (Genetics and variation)	
Activities	Practicals	
TERM-2 (ANNUAL)		
Periodic Test	PT 3: Unit X(Ecology and Environment)	
Activities	Investigatory project	
	Unit VI (Reproduction)	
	Unit VII (Genetics and variation)	
	Unit IX (Biotechnology-Principles , Processes and applications)	
Annual Exam	Whole Syllabus	

Syllabus : Computer Science (083)

Prescribed Books	1	Computer Science with C++ by Sumita Arora
Month	Periods	Lesson/Chapter
April		Revision Tour of Class XI, OOP, Class and Object
May		Constructor and Destructor Inheritance
June		Data File Handling <ul style="list-style-type: none"> • Text File • Binary File
July		Data Structures <ul style="list-style-type: none"> • Arrays(1D and 2D)
August		<ul style="list-style-type: none"> • Stack • Queue
September		Revision and Half Yearly Exam
October		Database Concepts My SQL/SQL , Boolean algebra
November		Networking and Open Source Software
December		Revision
January		Revision +Pre-Board

SYLLABUS FOR TERM EXAMS AND PERIODIC TEST

TERM 1	
Periodic Test 1	Till Inheritance
Periodic Test 2	Data File Handling, Data Structures
HALF-YEARLY	Portion till August
TERM 2	
Periodic Test -3	Database, SQL, Boolean Algebra
PRE-BOARD	Full Syllabus

Subject: INFORMATICS PRACTICES (065)

Prescribed Books:	Informatics Practices by Sumita Arora	
Month	Lesson/Chapter	
April	Computer Networking	
May	Open Source Concepts , Java Programming – 1	
June	Java Programming -2	
July	Java Programming – 3 & 4, Concepts of Inheritance	
August	Database connectivity, HTML	
September	Half Yearly Exam	
October	XML & HTML advance	
November	Revision	
December	Revision +Pre-Board 1	
January	Revision +Pre-Board 2	
February and March		
Syllabus for Term Exams and Periodic Test		
TERM-1		
Periodic Test	PT-1: Computer Networking , Open Source Concepts	
	PT-2: Java Programming – 1 and Java Programming – 2	
Half Yearly	Computer Networking, Open Source Concepts,	
	Java Programming -1, Java Programming -2, Java Programming -3	
TERM-2		
Periodic Test	PT-3 : HTML and XML	
Pre-Board-1 & Pre-Board-2	Complete Syllabus	

Subject : Hindustani Music Vocal (HVM)

Month	Practical	Theory
April	Rag Malkauns Drut Khayal	Definitions-Alankar Varna Kan Meend Khatka Murki Gamak Gram Murchana Aalap Taan
May	Rag Malkauns Vilambit Khayal	Definition cont. Taal Jhaptal
June	Rag Bhimpalasi	Classification of Ragas Theory of Ragas

July	Rag Bhimpalasi cont	Detail study of Sangeet Ratnakar Sangeet Parijat
August	Rag Bageshri	Recitation of Theka Tal Rupak
September	Revision	Revision
October	Rag Bageshri	Recitation of Thekas..Dhamar Tal Tilwara Tal
November	Rag Bhairav Drut khayal	Contribution of musicians...Ustad Bade Ghulam Ali Khan Pt.Krishna Rao Shankar Pandit
December	Dhamar Tarana	life sketch of Ustad Abdul karim Khan..... Ustad Faiyaj Khan

Subject : Fine Arts

Prescribed book - history of Indian art (Ashok Gupta)

June - August

- 1.(June - August) Indian miniature painting
- 2.The Rajasthani school
- 3.The Pahari school
- 4.The Mughal school
- 5.The Deccan school

September - Half yearly exam

Revision

October - December

- 6.The Indian National Flag and the bengal school of painting .
- 7.The modern trends in Indian art
- 8.CBSE board question papers. (Revision)

Final exam → complete syllabus

*practical *

1. Nature and object study
2. Still life composition (live) with pencil shading.
3. Landscape with two human figure (Watercolour)
4. Portfolio assessment:-
 - A. Six still life with pencil shading
 - B. Six landscape with human figure in watercolor.
 - C. Making decorated cover file.

Subject: PHYSICAL EDUCATION

Prescribed	1)	Saraswati Publication , Health and Physical Education (Dr. V K Sharma)
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Books	2)	B R International, Physical Education and Health (Dr A K Srivastava & Dr. N K Gaur
Month	Periods	Lesson/Chapter
April	20	Planning in Sports Sports & Nutrition
May	8	Yoga and Lifestyle
June	15	Physical education & sports for CWSN(children with special needs) divyang.
July	22	Children and women in sports.
August	21	Test & measurement in sports. Physiology & injuries in sports. Bio mechanics and sports.
September	REVISION + HALF YEARLY EXAMINATION	
October	13	Psychology and sports, Training and sports
November		Revision Test 1, 2 & 3
December		Revision and Pre Board
January		Pre Board 2 & Final Practical
February	Preparation leave	
March	Annual Exam	

Syllabus for Term Exams and Monthly Test

Term-1		
Periodic Test-1		Planning in Sports Sports & Nutrition Yoga & Lifestyle
Periodic Test--2		Test & Measurement in Sports Physiology, Injury & Sports
Periodic Test-3		Biomechanics & Sports Psychology & Sports Training in Sports
Pre Board 1	December 2018 Complete Syllabus	
Pre Board 2	January 2019 Complete Syllabus	
Final Exam	March 2019 Complete Syllabus	