



New Horizon Public School, Airoli

Grade : XII : Syllabus

Academic Year 2023 - 2024

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Grade XII		Subject: English Core (Subject Code : 301)		
Term I				
Month	Chap No.	Chapter Name	Name of the book	Page No.
March	1 1	The Last Lesson My Mother at 66 Writing Skills : Notice writing Activity/Art Integrated: Prepare a card a thank note and Write a paragraph describing the qualities of your mother . Is it necessary to study three languages at school -Debate	Flamingo(NCERT) Flamingo(NCERT)	2 90
April	1	The Third Level	Vistas (NCERT)	1
	2	Lost Spring	Flamingo(NCERT)	13
	3	Deep Water Writing Skill : Article Writing Activity /Art Integration : Poster Making - Make a poster to stop Child labour (Lost Spring)	Flamingo(NCERT)	23
June	2	The Tiger King	Vistas (NCERT)	8
	4	The Rattrap	Flamingo(NCERT)	32
	3	Keeping Quiet Writing Skill : Letter Writing based on Verbal /Visual input – Complaint, Editor, Public issues Activity /Art Integration : Role Play (Rat Trap) Edla is able to bring about a change of heart in the pedlar Write a notice for your school bulletin board to announce a forthcoming event. First Unit Test	Flamingo(NCERT)	95
July	3	Journey to the End of the Earth	Vistas (NCERT)	18
	4	The Enemy	Flamingo(NCERT)	24
	5	Indigo	Flamingo(NCERT)	46
	6	Poets and Pancakes Writing Skill : Letter (Job application), Resume writing Activity /Art Integration : Dramatization -The Enemy Article Writing - Patriotism based on the quote “Ask not what your country can do for you, ask what you can do for your country.	Flamingo(NCERT)	57

		Collect a few cartoon s from news magazines to discuss how important people or events have been satirized		
August	6 4 5	On The Face Of It A thing of Beauty A Roadside Stand Writing Skill : Formal /Informal Invitation and Reply Activity /Art Integration : Draft an invitation card and invite a famous personality to be the guest of honour at an old age home Write a Haiku poem -Nature	Vistas (NCERT) Flamingo(NCERT) Flamingo(NCERT)	56 98 100
September	7 8	The Interview Going Places Writing Skill : Article & Report Writing Activity /Art Integration : Write a report on behalf of Mukund Padmanabhan on the interview with Sudha Murthy for a local newspaper Prepare a Questionnaire for an interview with your role model (famous sports personality)	Flamingo(NCERT) Flamingo(NCERT)	68 77
		Half Yearly Examination		
Term II				
Month	Chap No.	Chapter Name	Name of the book	Page No.
October	6 8	Aunt Jennifer's Tigers Memories of Childhood Writing Skill : Revision Activity /Art Integration : Pick out the symbols found in the poem (Aunt Jennifer's Tiger) and draw any one of the image	Flamingo(NCERT) Vistas (NCERT)	103 93
November		Second Unit Test		

December		First Preliminary Examination		
January		Second Preliminary Examination		

Entire year: Notice, Formal/Informal Invitation and Reply, Letters based on verbal/visual input, Letter types include application for a job with bio data or resume. Letters to the editor (giving suggestions or opinion on issues of public interest) . iv. Article/ Report Writing, descriptive and analytical in nature, based on verbal inputs.

Grade : XII		Subject : Physics (Subject Code : 042)		
Term I				
Month	Chap No.	Chapter Name	Book Name	Page No.
April	1	Electric charges and fields	PHYSICS- part 1 NCERT	1-37
	2	Electrostatic potential and capacitance	PHYSICS- part1 NCERT	51-83
	3	Current electricity	PHYSICS- part1 NCERT	132-163
June	9	Ray optics and Optical Instruments	PHYSICS- part2 NCERT	309-335
	4	Moving charges and magnetism	PHYSICS- part 1 NCERT	164-172
		First Unit Test		
July	10	Wave Optics	PHYSICS- part2 NCERT	336-385
	5	Magnetism and matter	PHYSICS- part 1 NCERT	173-195
	14	Semiconductor Electronics: Materials, Devices and simple circuits	PHYSICS- part2 NCERT	467-505
August	6	Electromagnetic Induction	PHYSICS- part 1 NCERT	204-224
	7	Alternating current	PHYSICS- part 1 NCERT	233-257
	8	Electromagnetic Waves	PHYSICS- part2 NCERT	269-280
September	11	Dual nature of radiation and matter	PHYSICS- part2 NCERT	386-403
		Half Yearly Examination		

Term II				
Month	Chap No.	Chapter Name	Book Name	Page No.
October	12	Atoms	PHYSICS-part2 NCERT	414-430
	13	Nuclei	PHYSICS-part2 NCERT	438-451
November		Second Unit Test		
December		First Preliminary Examination		
January		Second Preliminary Examination		

Grade : XII		Subject :Chemistry (Subject Code : 043)		
Term I				
Month	Chap No.	Chapter Name	Book Name	Page No.
April	2	Solutions	Chemistry Part -I NCERT	33
	10	Haloalkanes & Haloarenes Art Integration: Stereochemistry- Collect Chiral and achiral everyday objects (any 5 each)	Chemistry Part-II NCERT	281
June	11	Alcohols, Phenols & Ethers	Chemistry Part-II NCERT	315
	3	Electrochemistry	Chemistry Part -I NCERT	63
		First Unit Test		
July	12	Aldehydes, Ketones & carboxylic Acids	Chemistry Part-II NCERT	349
	8	d & f-Block Elements	Chemistry Part -I NCERT	209
August	4	Chemical Kinetics	Chemistry Part -I NCERT	93
	13	Amines	Chemistry Part-II NCERT	381
September	14	Biomolecules	NCERT	403
		Half Yearly Examination		
Term II				
Month	Chap No.	Chapter Name	Book Name	Page No.
October	9	Co-ordination Compounds	Chemistry Part -I NCERT	237
November		Second Unit Test		
December		First Preliminary Examination		
January		Second Preliminary Examination		

Grade : XII		Subject :Mathematics (Subject Code : 041)		
Term I				
Month	Chap No.	Chapter Name	Book Name	Page No.
April	3	Matrices	NCERT	1
	4	Determinants	NCERT	33
	1	Relations and functions	NCERT	56
June	2	Inverse Trigonometric function	NCERT	103
	5	Continuity and differentiability	NCERT	147
		First Unit Test		
July	6	Application of derivative	NCERT	194
	7	Integration	NCERT	287
	8	Application of integral	NCERT	359
August	9	Differential equations	NCERT	379
	10	Vector algebra Art Integration/ Activity : Sketching of three Dimensional structures Using Vector Algebra.	NCERT	424
September	11	Three dimensional geometry	NCERT	463
		Half Yearly Examination		

Term II				
Month	Chap No.	Chapter Name	Book Name	Page No.
October	12	Linear programing Art Integration : Graphs sketching Activity Using LPP .	NCERT	504
	13	Probability	NCERT	531
November		Second Unit Test		
December		First Preliminary Examination		
January		Second Preliminary Examination		

Grade : XII		Subject : Biology (Subject Code : 044)		
Term I				
Month	Chap No.	Chapter Name	Book Name	Page No.
April	2	Sexual Reproduction in Flowering Plants	NCERT	19
	3	Human Reproduction	NCERT	42
	4	Reproductive Health Art Integration: Prepare and perform a survey STDs and its prevention in your locality.	NCERT	57
June	11	Biotechnology: Principles and Processes	NCERT	193
	12	Biotechnology and its Applications	NCERT	207
		First Unit Test		
July	5	Principles of Inheritance and Variation	NCERT	69
	6	Molecular Basis of Inheritance	NCERT	95
August	7	Evolution	NCERT	116
	8	Human health and Disease	NCERT	145
September	10	Microbes in human welfare Art Integration: Use of different microorganisms at home.	NCERT	179
		Half Yearly Examination		

Term II				
Month	Chap No.	Chapter Name	Book Name	Page No.
October	14	Ecosystem	NCERT	235
	13	Organisms and population	NCERT	219
	15	Biodiversity and conservation Art Integration: Doing the survey to understand different species of Animals and Plants in the state.	NCERT	258
November		Second Unit Test		
January		First Preliminary Examination		
February		Second Preliminary Examination		

Grade XII		Subject: Computer Science (Subject Code : 083)		
Term I				
Month	Chap No.	Chapter Name	Name of the book	Page No.
April	1	Python Revision Tour –I	Computer Science with Python Sumita Arora	1-40
	2	Python Revision Tour –II		41-92
	3	Working with Functions		93-152
	4	Using Python Libraries		153-186
	5	File Handling		187-254
June	8	Data Structures-I :Linear Lists Data Structures-II :Stacks First Unit Test	Computer Science with Python Sumita Arora	311-348 349-388
July	10	Communication and Network Concepts (Art Integrated Project)	Computer Science with Python Sumita Arora	389-500
August	11	Relational Databases	Computer Science with Python Sumita Arora	501-520
	12	Simple Queries in SQL		521-564
	13	Table Creation and Data Manipulation Commands		565-592
	14	Grouping records, Joins in SQL		593-620
September		Half Yearly Examination		
Term II				
Month	Chap No.	Chapter Name	Name of the book	Page No.
October	15	Interface Python with MySQL (Project)	Computer Science with Python Sumita Arora	621-633
November		Second Unit Test		
December		First Preliminary Examination		
January		Second Preliminary Examination		

Grade XII		Subject : Physical Education (Subject Code : 048)		
Term I				
Month	Chap. No.	Chapter Name	Book Name	Page No.
April	1	Management of Sporting Event	Health and Physical Education	14
	2	Children and Sports	Health and Physical Education	47
June July	3	Yoga as Preventive Measures for Lifestyle Diseases Art Integration- Dances as a form of Exercises	Health and Physical Education	75
		First Unit Test		
	4	Physical Education & Sports for CWSN	Health and Physical Education	99
	5	Sports and Nutrition	Health and Physical Education	114
August	6	Test & Measurement in Sports	Health and Physical Education	140
September	7	Physiology & Injuries in Sports	Health and Physical Education	156
		Half Yearly Examination		
Term II				
Month	Chap No.	Chapter Name	Book Name	Page No.
October	8	Biomechanics & Sports	Health and Physical Education	177
	9	Psychology & Sports	Health and Physical Education	194
	10	Training in Sports	Health and Physical Education	219
November		Second Unit Test		
December		First Preliminary Examination		
January		Second Preliminary Examination		

Grade XII		Subject : Economics (Subject Code : 030)		
Tem I				
Month	Chap. No.	Chapter Name	Book Name	Page No.
April	1	Introduction	Introductory-Macroeconomics T.R. Jain & V.K. Ohri	3
	2	Some Basic Concepts of Macroeconomics	Introductory-Macroeconomics T.R. Jain & V.K. Ohri	15
	3	National Income and Related Aggregates	Introductory-Macroeconomics T.R. Jain & V.K. Ohri	51
	1	Indian Economy on the Eve of Independence	Introductory-Macroeconomics T.R. Jain & V.K. Ohri	3
June	2	Five year Plan in India: Goals and Achievements	Indian Economic Development T.R. Jain & V.K. Ohri	29
	4	Methods of Calculating National Income	Introductory-Macroeconomics T.R. Jain & V.K. Ohri	81
	5-6	Money and Banking	Introductory-Macroeconomics T.R. Jain & V.K. Ohri	135-153
		First Unit Test		
July	3	Features, Problems and Policies of Agriculture	Introductory-Macroeconomics T.R. Jain & V.K. Ohri	55
	7	Aggregate Demand, Aggregate Supply and Related Concepts	Introductory-Macroeconomics T.R. Jain & V.K. Ohri	177
August	4	Strategy of Industrial Growth (1947-1990)	Introductory-Macroeconomics T.R. Jain & V.K. Ohri	77
	8	Short Run Equilibrium Output	Introductory-Macroeconomics T.R. Jain & V.K. Ohri	213
September	5	India’s Foreign Trade	Introductory-Macroeconomics T.R. Jain & V.K. Ohri	91
		Half Yearly Examination		

Term II				
Month	Chap. No.	Chapter Name	Book Name	
October	6	Economic Reforms Since 1991	Indian Economic Development T.R. Jain & V.K. Ohri	107
	8	Human Capital Formation in India	Indian Economic Development T.R. Jain & V.K. Ohri	159
	9	Rural Development	Indian Economic Development T.R. Jain & V.K. Ohri	181
	10	Employment	Indian Economic Development T.R. Jain & V.K. Ohri	205
	9	Problem of Deficient Demand and Excess Demand	Introductory Macroeconomics T.R. Jain & V.K. Ohri	255
	10	Government Budget and the Economy	Introductory Macroeconomics T.R. Jain & V.K. Ohri	291
November	11	Foreign Exchange Rate	Introductory Macroeconomics T.R. Jain & V.K. Ohri	333
	12	Balance of Payments	Introductory Macroeconomics T.R. Jain & V.K. Ohri	365
	12	Environment and Sustainable Development	Indian Economic Development T.R. Jain & V.K. Ohri	267
	13	Development Experience of India & Pakistan and China – A Comparative Study	Indian Economic Development T.R. Jain & V.K. Ohri	289
November		Second Unit Test		
December		First Preliminary Examination		
January		Second Preliminary Examination		