



# **New Horizon Public School, Airoli**

**Grade : XI : Syllabus**

**Academic Year 2023 - 2024**

<b>Contents</b>			
<b>Sr. No</b>	<b>Name of the subject</b>	<b>Subject Code</b>	<b>Page No</b>
1	English Core	301	3
2	Physics	042	5
3	Chemistry	043	7
4	Mathematics	041	8
5	Biology	044	9
6	Computer Science	083	11
7	Physical Education	048	13
8	Economics	030	14

Grade : XI		Subject: English Core ( Subject Code : 301 )		
Term I				
Month	Chap No.	Chapter Name	Book Name	Page No.
June		Bridge Course Integrated grammar, writing skills -letter writing- formal/informal-invitation and reply		
July	1	The portrait of a lady	Hornbill(NCERT)	3
	2	A Photograph(poem)	Hornbill(NCERT)	11
	1	The Summer of the beautiful White Horse	Snapshots (NCERT)	1
	3	We are not afraid to die <b>Writing Skills</b> : Notice Writing , Article writing. <b>Grammar</b> : Determiners, Tenses	Hornbill(NCERT)	13
August	4	<b>First Unit Test</b> Discovering Tut , the saga continues	Hornbill(NCERT)	22
	2	The Address	Snapshots(NCERT)	10
	7	The Voice of the Rain(poem)	Hornbill(NCERT)	41
		<b>Writing Skills</b> : Speech Writing and Poster Making ,Letter Writing -Placing an Order, Seeking Information, Letter to Editor Report Writing <b>Grammar</b> : Modals , Change the voice, Clauses Art Integration Activity: Write a Haiku poem Pick out the words which depicts cycle of rainwater and draw		
September	3	Ranga’s Marriage	Snapshots(NCERT)	16
	4	Albert einstein at school	Snapshots(NCERT)	25
	5	The Laburnum Top(poem)	Hornbill(NCERT)	31
	6	Landscape of the soul <b>Writing Skills</b> : Advertisement, Letter Writing -Complaint and Enquiry , Note Making Art integration Project : Advertisement of tourism of the given state	Hornbill(NCERT)	34

Term II				
Month	Chap No.	Chapter Name	Book Name	Page No.
October		<b>Half Yearly Examination</b>		
	8	The Ailing Planet	Hornbill(NCERT)	43
	9	The Browning version	Hornbill(NCERT)	50
	10	Childhood	Hornbill(NCERT)	58
	5	Mother's Day <b>Writing Skills</b> : Letter Writing to Authorities , Report writing, <b>Grammar</b> :Integrated Exercises Art Integration Project : Poster making Save Mother earth	Snapshots(NCERT)	32
November	6	The Adventure	Snapshots (NCERT)	54
	11	Father to son(poem)	Hornbill(NCERT)	60
	13	<b>Writing Skills</b> : Debate, Application for job <b>Grammar</b> Integrated exercises Art Integration Activity : Debate	Hornbill(NCERT)	85
December	12	<b>Second Unit Test</b> Silk Road	Hornbill(NCERT)	74
	7	Birth	Snapshots(NCERT)	65
January	8	The Tale of the Melon city <b>Writing skills</b> Report Writing <b>Grammar</b> : Integrated grammar	Snapshots(NCERT)	71
February		<b>Annual Examination</b>		

GRAMMAR: M CQ questions Gap Filling (Determiners and Tenses) , Modals, Clauses, Change of voice ,Error correction, Editing task/ cloze passage

MCQ on Reordering and transformation of sentences

Internal Assessment, Assessment of Listening and Speaking Skills will be for 20 Marks

Grade : XI		Subject : Physics ( Subject Code : 042 )		
Term I				
Month	Chap No.	Chapter Name	Book Name	Page No.
June		Bridge Course	NCERT(IX &X grade)	
July	2	Units and Measurement	Physics part 1 NCERT	16-32
	3	Motion in a Straight line	Physics Part 1 NCERT	39-51
August		First Unit Test		
	4	Motion in a Plane Churning of curd to separate butter.	Physics Part 1 NCERT	65-79
	9	Mechanical Properties of Solids	Physics Part 2 NCERT	231-240
	10	Mechanical Properties of Fluids	Physics Part 2 NCERT	246-261
September	11	Thermal Properties of matter	Physics Part 2 NCERT	274-290
	5	Laws of Motion: Writing a poem on laws of motion and recitation	Physics Part 1 NCERT	89-105
	6	Work Energy and Power	Physics Part 1 NCERT	114-129
Term II				
Month	Chap No.	Chapter Name	Book Name	Page No.
October		Half Yearly Examination		
	7	System of Particles and rotational Motion. Dance video including spinning/rotating steps	Physics Part 1 NCERT	141-173
	8	Gravitation	Physics Part 1 NCERT	183-197

<b>November</b>	12	Thermodynamics	Physics Part 2 NCERT	298-311
	13	Kinetic Theory	Physics Part 2 NCERT	318-330
<b>December</b>		<b>Second Unit Test</b>		
	14	Oscillations A project on music and musical instruments in Orissa	Physics Part 2 NCERT	336-355
<b>January</b>	15	Waves	Physics Part 2 NCERT	363-384
<b>February</b>		<b>Annual Examination</b>		

Grade : XI		Subject :Chemistry ( Subject Code : 043 )		
Term I				
Month	Chap No.	Chapter Name	Book Name	Page No.
June		Bridge Course	Chemistry Volume I & II -NCERT	
July	1	Some Basic Concepts of chemistry		1
	8	Redox Reactions		255
August		First Unit Test		
	2	Structure of atom		26
	3	Classification of elements		70
September	4	Chemical Bonding and Molecular Structure		96
Term II				
Month	Chap No.	Chapter Name	Book Name	Page No.
October		Half Yearly Examination		
	12	Some basic principles and techniques in Organic Chemistry	Chemistry Volume I & II -NCERT	326
November	7	Equilibrium		185
December		Second Unit Test		
	6	Thermodynamics		154
January	13	Hydrocarbons		365
February		Annual Examination		

Grade : XI		Subject : Mathematics ( Subject Code : 041 )		
Term I				
Month	Chap No.	Chapter Name	Book Name	Page No.
June		Bridge Course	NCERT (IX & X grade)	
July	1	Sets	MATHEMATICS NCERT TEXT BOOK	1
	2,3	Relations and functions, Trigonometric functions	MATHEMATICS NCERT TEXT BOOK	30-49
August		First Unit Test		
	5,6	Complex numbers and quadratic equation, Linear inequalities. Art Integration Project/Activity:- Sketching of graphs Using Linear Inequalities.	MATHEMATICS NCERT TEXT BOOK	86-116
September	7	Permutations and combinations	MATHEMATICS NCERT TEXT BOOK	134
Term II				
Month	Chap No.	Chapter Name	Book Name	Page No.
October		Half Yearly Examination		
	8,9	Binomial theorem, sequence and series	MATHEMATICS NCERT TEXT BOOK	160-177
November	10,11	Straight lines, conic sections Art Integration/Activity:-PPT presentation of different forms of Equation of Lines.	MATHEMATICS NCERT TEXT BOOK	203-236
December		Second Unit Test		
	12,13	Three dimensional geometry, Limits and Derivatives	MATHEMATICS NCERT TEXT BOOK	268-281
January	15,16	Statistics and Probability	MATHEMATICS NCERT TEXT BOOK	321-383
February		Annual Examination		



Grade : XI		Subject : Biology ( Subject Code : 044 )		
Term I				
Month	Chap No.	Chapter Name	Book Name	Page No.
June		Bridge Course	Biology Textbook NCERT: Grade XI	
July	1	The Living world	Biology Textbook NCERT: Grade XI	1
	2	Biological classification	Biology Textbook NCERT: Grade XI	16
	3	Plant kingdom	Biology Textbook NCERT: Grade XI	29
		First Unit Test		
August	4	Animal Kingdom	Biology Textbook NCERT: Grade XI	46
	8	Cell- The unit of life	Biology Textbook NCERT: Grade XI	125
	9	Biomolecules	Biology Textbook NCERT: Grade XI	142
	13	Photosynthesis in higher plants	Biology Textbook NCERT: Grade XI	206
	14	Respiration in plants Art Integration: Power Point Presentation of Glycolysis	Biology Textbook NCERT: Grade XI	226
September	15	Plant growth and development	Biology Textbook NCERT: Grade XI	239

**Term II**

<b>Month</b>	<b>Chap No.</b>	<b>Chapter Name</b>	<b>Book Name</b>	<b>Page. No.</b>
<b>October</b>		<b>Half Yearly Examination</b>		
	21	Neural control and coordination	Biology Textbook NCERT: Grade XI	315
	22	Chemical coordination and integration	Biology Textbook NCERT: Grade XI	328
	18	Body fluids and circulation	Biology Textbook NCERT: Grade XI	278
<b>November</b>	7	Structural organization in animals	Biology Textbook NCERT: Grade XI	100
	6	Anatomy of Flowering plants	Biology Textbook NCERT: Grade XI	79
		<b>Second Unit Test</b>	Biology Textbook NCERT: Grade XI	
<b>December</b>	19	Excretory products and their elimination	Biology Textbook NCERT: Grade XI	290
	20	Locomotion and movement	Biology Textbook NCERT: Grade XI	302
<b>January</b>	10	Cell cycle and cell division Art Integration: Chart making of cell cycle.	Biology Textbook NCERT: Grade XI	125
	5	Morphology of flowering plants Art Integration: Saura painting of different classes of plant Family.	Biology Textbook NCERT: Grade XI	65
	17	Breathing and exchange of gases	Biology Textbook NCERT: Grade XI	268
<b>February</b>		<b>Annual Examination</b>		

Grade : XI		Subject : Computer Science ( Subject Code : 083 )		
Term I				
Month	Chap No.	Chapter Name	Book Name	Page No.
June		Bridge Course	----	
July	1	Computer System Overview	Computer Science with Python By Sumita Arora	1-22
	2	Data Representation		23-50
August		First Unit Test		
	3	Boolean Logic		51-84
	4	Insight into Program Execution		85-108
September	5	Introduction to Problem solving		109-138
	6	Getting Started with Python		139-158
	7	Python Fundamentals		159-202
	8	Data Handling		203-270
Term II				
Month	Chap No.	Chapter Name	Book Name	Page No.
October		Half Yearly Examination		
	9	Flow of control	Computer Science with Python By Sumita Arora	271-334
	10	String Manipulation		335-368
November	11	List Manipulation		369-416
	12	Tuples		420-446
		Second Unit Test		

<b>December</b>	13	Dictionaries		447-494
	14 15	Understanding Sorting Cyber Safety (Art Integrated project: Comparative study)		495-510 511-530
<b>January</b>	16	Online Access and computer security		531-544
	17	Society Law and ethics		545-558
<b>February</b>		<b>Annual Examination</b>		NA

Grade : XI		Subject : Physical Education ( Subject Code : 048 )		
Term I				
Month	Chap No.	Chapter Name	Book Name	Page No.
June		Bridge Course	-----	
July	1	Changing Trends and Career in Physical Education	Health and Physical Education Saraswati publication	9
	2	Olympism	Health and Physical Education Saraswati publication	27
	3	Yoga	Health and Physical Education Saraswati publication	48
August		First Unit Test		
	4	Physical Education and sports for CWSN	Health and Physical Education Saraswati publication	67
September	5	Physical Fitness, Health and Wellness	Health and Physical Education Saraswati publication	80
Term II				
Month	Chap No.	Chapter Name	Book Name	Page No.
October		Half Yearly Examination		
	6	Test, Measurement & Evaluation	Health and Physical Education Saraswati publication	96
November	7	Fundamentals of Anatomy, Physiology in Sports	Health and Physical Education Saraswati publication	116
December		Second Unit Test		
	8	Fundamentals of Kinesiology and Biomechanics in Sports	Health and Physical Education Saraswati publication	130
January	9	Psychology and Sports	Health and Physical Education Saraswati publication	170
	10	Training and Doping in Sports	Health and Physical Education Saraswati publication	191
February		Annual Examination		

**Grade : XI****Subject : Economics ( Subject Code : 030 )****Term I**

<b>Month</b>	<b>Chap No.</b>	<b>Chapter Name</b>	<b>Book Name</b>	<b>Pg. No.</b>
<b>June</b>		Bridge Course	NCERT (IX &X grade)	
<b>July</b>	1	Concept of Economics and Significance of statistics in Economics	Statistics for Economics (T.R. Jain & V.K. Ohri)	3
	2	Collection of Data	Statistics for Economics (T.R. Jain & V.K. Ohri)	19
	3	Census and Sample- Methods of collection of data	Statistics for Economics (T.R. Jain & V.K. Ohri)	37
	1	Introduction – Economics and Economy	Introductory Microeconomics (T.R. Jain & V.K. Ohri)	3
	2	Central Problems of an Economy	Introductory Microeconomics (T.R. Jain & V.K. Ohri)	17
	3	Consumer's Equilibrium - Utility Analysis	Introductory Microeconomics (T.R. Jain & V.K. Ohri)	45
<b>August</b>		<b>First Unit Test</b>		
	4	Organization of Data	Statistics for Economics (T.R. Jain & V.K. Ohri)	51
	5	Presentation of Data-Textual and Tabular presentation	Statistics for Economics (T.R. Jain & V.K. Ohri)	85
	4	Consumer's Equilibrium - IC and BL	Introductory Microeconomics (T.R. Jain & V.K. Ohri)	71
	5	Theory of Demand	Introductory Microeconomics (T.R. Jain & V.K. Ohri)	97

<b>September</b>	6	Price Elasticity of Demand	Introductory Microeconomics (T.R. Jain & V.K. Ohri)	135
	6	Diagrammatic Presentation of Data- Bar Diagrams and Pie- Diagrams	Statistics for Economics (T.R. Jain & V.K. Ohri)	101
	7	Frequency Diagrams: Histogram, Polygon and Ogive	Statistics for Economics (T.R. Jain & V.K. Ohri)	123
<b>Term II</b>				
<b>October</b>		<b>Half Yearly Examination</b>		
	8	Arithmetic Line-Graphs or Time Series Graphs	Statistics for Economics (T.R. Jain & V.K. Ohri)	143
	9	Measures of Central tendency - Arithmetic Mean	Statistics for Economics (T.R. Jain & V.K. Ohri)	157
	7	Production Function and Returns to a Factor	Introductory Microeconomics (T.R. Jain & V.K. Ohri)	153
<b>November</b>	8	Concepts of Cost	Introductory Microeconomics (T.R. Jain & V.K. Ohri)	181
	9	Concepts of Revenue	Introductory Microeconomics (T.R. Jain & V.K. Ohri)	213
	10	Measures of Central tendency - Median and Mode	Statistics for Economics (T.R. Jain & V.K. Ohri)	199
<b>December</b>		<b>Second Unit Test</b>		
	11	Measures of Dispersion	Statistics for Economics (T.R. Jain & V.K. Ohri)	273
	12	Correlation	Statistics for Economics (T.R. Jain & V.K. Ohri)	343
	10	Producer's Equilibrium	Introductory Microeconomics (T.R. Jain & V.K. Ohri)	239
	11	Theory of Supply	Introductory Microeconomics (T.R. Jain & V.K. Ohri)	259

<b>January</b>	13	Index Numbers	Statistics for Economics (T.R. Jain & V.K. Ohri)	381
	12	Forms of Market	Introductory Microeconomics (T.R. Jain & V.K. Ohri)	295
	13	Market Equilibrium Perfect Competition and Effects of Shifts in Demand and Supply	Introductory Microeconomics (T.R. Jain & V.K. Ohri)	321
<b>February</b>		<b>Annual Examination</b>		