



DELHI PUBLIC SCHOOL, DHURI

(Under the aegis of DPS Society New Delhi)

(Session 2020-21) /Grade-XII/English/Syllabus Bifurcation

Month	Course Book	Writing	Comprehension Skills	Activity
Apr	Book- Vistas 1. The Third Level Book- Flamingo 1. The Last Lesson Poem – 1. My Mother at Sixty Six	Article Writing	Reading	Listening
May	Book- Vistas 2. The Tiger King Book- Flamingo 2. Lost Spring Poem –2. An Elementary School...	Advertisements and Notices	Reading	Speaking
June	Book- Vistas 3. Journey to the End of the Earth Book- Flamingo 3. Deep Water Poem – 3. Keeping Quiet	Formal and informal invitations and replies	Reading	Listening
July	Book- Vistas 4. The Enemy 5. Should Wizard Hit Mommy Book- Flamingo 4. The Rattrap Poem – 4. A Thing of Beauty	Letters to the Editor Application for a job	Reading	Speaking
Aug	Book- Vistas 6. On the Face of It Book- Flamingo 5. Indigo Poem – 5. A Roadside Stand	Report Writing	Reading	Listening
Sept.	Term-I			

Oct.	Book- Vistas 7. Evans Tries an O-Level 8. Memories of Childhood Part 1.The Cutting of My Long Hair Book- Flamingo 6. Poets and Pancakes Poem – 6. Aunt Jennifer’s Tigers	<ul style="list-style-type: none"> • Report Writing • Article Writing • Advertisements • Notices 	Reading	Speaking
Nov.	Book- Vistas 8. Part 2. We too are Human Beings Book- Flamingo 7. The Interview 8. Going Places	<ul style="list-style-type: none"> • Invitations and Replies 	Reading	Listening
Dec.	Revision of Pre- Board 1			
Jan.	Revision of Pre- Board 2			
Feb	Revision			
Mar	Term-II			

Subject	PT-1	PT-2	PT-3
English	<p style="text-align: center;">SEC: A (READING)</p> <ul style="list-style-type: none"> • Comprehension Passage <p style="text-align: center;">SEC: B (WRITING)</p> <ul style="list-style-type: none"> • Article • Invitations and Replies <p style="text-align: center;">SEC: C (LITERATURE)</p> <p><u>Book – Flamingo</u></p> <ul style="list-style-type: none"> • Chapter 1 – The Last Lesson • Chapter 2 – Lost Spring • Poem 1 – My Mother at Sixty Six • Poem 2 – An Elementary School Classroom in a Slum 	<p style="text-align: center;">SEC: A (READING)</p> <ul style="list-style-type: none"> • Comprehension Passage <p style="text-align: center;">SEC: B (WRITING)</p> <ul style="list-style-type: none"> • Letters to editor/ Application for job <p style="text-align: center;">SEC: C (LITERATURE)</p> <p><u>Book – Flamingo</u></p> <ul style="list-style-type: none"> • Chapter - 3. Deep Water • Poem – 3. Keeping Quiet • Poem – 4. A Thing of Beauty <p style="text-align: center;"><u>Book- Vistas</u></p> <ul style="list-style-type: none"> • 4. The Enemy 	<p style="text-align: center;">SEC: A (READING)</p> <ul style="list-style-type: none"> • Comprehension Passage <p style="text-align: center;">SEC: B (WRITING)</p> <ul style="list-style-type: none"> • Report Writing • Advertisements <p style="text-align: center;">SEC: C (LITERATURE)</p> <p><u>Book – Flamingo</u></p> <ul style="list-style-type: none"> • Poem – 6. Aunt Jennifer’s Tigers • Chapter-4. The Rattrap • Chapter-5. Indigo <p style="text-align: center;"><u>Book- Vistas</u></p> <ul style="list-style-type: none"> • 7. Evans Tries an O-Level

Subject	Term-I	Term-II
English	<p style="text-align: center;">Section-A (Reading)</p> <ul style="list-style-type: none"> • Comprehension Passage <p style="text-align: center;">Section-B (Writing)</p> <ul style="list-style-type: none"> • Article Writing • Advertisements • Notices • Report Writing • Invitations and Replies • Letters to editor/ Application for job <p style="text-align: center;">Section-C (Literature)</p> <ul style="list-style-type: none"> • Book- Vistas Chapter 1,4 and 5 • Book- Flamingo Chapter 1 to 4 Poem 1 to 4 	<p style="text-align: center;">Section-A (Reading)</p> <ul style="list-style-type: none"> • Comprehension Passage <p style="text-align: center;">Section-B (Writing)</p> <ul style="list-style-type: none"> • Article Writing • Advertisements • Notices • Report Writing • Invitations and Replies • Letters to editor/ Application for job <p style="text-align: center;">Section-C (Literature)</p> <ul style="list-style-type: none"> • Book- Vistas Chapter 1,4 to7 • Book- Flamingo Chapter 1 to 5 Poem 1 to 4 and 6

DELHI PUBLIC SCHOOL, DHURI
SYLLABUS

CLASS- XII

SUBJECT- CHEMISTRY

Month	Units	Practical (30 marks)
April	Unit-I-Solid State Unit II: Solutions	Thermo chemistry.
May	Unit III: Electrochemistry. Unit IV: Chemical Kinetics.	Chemical Kinetics. Electrochemistry.
June	Unit V: Surface Chemistry.	
July	Unit VI: General Principles and Processes of Isolation of Elements Unit VII: p-Block Elements.	Chromatography. Quantitative Estimation. Preparation of Inorganic Compounds. Surface Chemistry.
August	Unit VIII: d and f Block Elements. Unit IX: Coordination Compounds.	
September	TERM-1	
October	Unit X: Haloalkanes and Haloarenes. Unit XI: Alcohols, Phenols and Ethers	Preparation of Organic Compounds. Tests for the functional groups present in organic compounds.
November	Unit XII: Aldehydes, Ketones and Carboxylic Acids Unit XIII: Organic compounds containing Nitrogen Unit XIV: Biomolecules	Characteristic tests of carbohydrates, fats and proteins in pure samples and their detection in given food stuffs.
December	Revision	Qualitative analysis.
January	Revision	Qualitative analysis.

February	Pre-annual examination and revision.	Whole Syllabus (70 marks)
March	TERM-II	Whole Syllabus (70 marks)

Subject	PT-1	PT-2	PT-3
<i>Chemistry</i>	<i>Unit-I and II.</i>	<i>Unit-VII</i>	<i>Unit-XII</i>

Subject	Term-I	Term-II
Chemistry	Unit-I to IX	Whole Syllabus

**DELHI PUBLIC SCHOOL, DHURI
SYLLABUS**

CLASS- XII

SUBJECT- Physics

Month	Units	Practical (30 marks)
April	Unit-I: Electrostatics. Unit-II: Current Electricity.	1. To determine resistance per cm of a given wire by plotting a graph for potential difference versus current. 2. To find resistance of a given wire using meter bridge and hence determine the resistivity (specific resistance) of its material.
May	Unit III: Magnetic Effect of Current & Magnetism.	3. To verify the laws of combination (series) of resistances using a meter bridge. 4. To verify the laws of combination (parallel) of resistances using a meter bridge.
June	Unit V: Electromagnetic Waves.	
July	Unit IV: Electromagnetic Induction & Alternating Current.	5. To compare the EMF of two given primary cells using potentiometer. 6. To determine the internal resistance of given primary cell using potentiometer.
August	Unit VI: Optics.	7. To find the value of v for different values of u in case of a concave mirror and to find the focal length. 8. To find the focal length of a convex mirror, using a convex lens.
September	Half yearly examination.	April to August syllabus
October	Unit VII: Dual Nature of Matter. Unit VIII: Atoms & Nuclei	9. To find the focal length of a convex lens by plotting graphs between u and v or between $1/u$ and $1/v$. 10. To find the focal length of a concave lens, using a convex lens. 11. To determine angle of minimum deviation for a given prism by plotting a graph between angle of incidence and angle of deviation.
November	Unit IX: Electronic Devices. Unit X: Communication Systems.	12. To draw the I-V characteristic curve for a p-n junction in forward bias and reverse bias. 13. To draw the characteristic curve of a zener diode and to determine its reverse breaks down voltage.
December	Revision.	
January	Revision.	
February	Pre-board examination and revision.	Whole Syllabus (70 marks)

March	Board Examination		Whole Syllabus (70 marks)	
PT1	PT2	PT3	TERM1	TERM2
Unit-I and II	Unit-III and IV	Unit-IX and X	Unit-I,II,III,IV,V,VI	Whole Syllabus



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Grade XII / BIOLOGY /SYLLABUS / 2020-21

Month	Unit	Chapters	Practicals
April	Unit II Genetics and Evolution	Ch5- Principles of Inheritance and Variation Ch6- Molecular Basis of Inheritance	<ul style="list-style-type: none">• Prepare temporary mount of pollen germination.• Temp. mount of onion root tip to study mitosis
May	Unit I- Reproduction	Ch2- Sexual Reproduction in Flowering Plants	<ul style="list-style-type: none">• Collect water from two different water bodies and study its pH, clarity and purity.• Collect soil from two different sites and study texture, moisture content, pH and water holding capacity. Correlate with the kinds of plants found in them.
June		Ch3- Human Reproduction	<ul style="list-style-type: none">• Study the effect of different temperatures on the activity of salivary amylase on starch.• Isolate DNA from available plant material such as spinach, green pea seeds, papaya, etc.
July		Ch4- Reproductive Health	<ul style="list-style-type: none">• Study the flowers adapted to agents of pollination like: wind,

			<p>insect and bird.</p> <ul style="list-style-type: none"> • Observe permanent slides of t.s of testis and t.s of ovary, meiosis in onion bud cell, t.s of blastula.
August	Unit III-Biology and Human Welfare	Ch8- Human Health and Diseases	<ul style="list-style-type: none"> • Prepare pedigree charts of any one of the genetic traits such as rolling of tongue, blood groups, earlobes, windows peak and colour blindness.
September	TERM 1		
October	Unit III- Biology and Human Welfare Unit IV- Biotechnology and its Applications	Ch10- Microbes in Human Welfare Ch11- Biotechnology: Principles and Processes	<ul style="list-style-type: none"> • Common diseases causing organisms like <i>Ascaris</i>, <i>Entamoeba</i>, <i>Plasmodium</i>, any fungus causing ring worm through permanent slides, model or visual images.
November	Unit IV- Biotechnology and its Applications	Ch12: Biotechnology and its Application	<ul style="list-style-type: none"> • Two plants and two animals [models /visual images]found in xeric conditions. Comment on their morphological adaptations.
December	Unit V- Ecology and Environment	Ch13- Organisms and Polpulations	<ul style="list-style-type: none"> • Two plants and two animals [models/ visual images] found in aquatic conditions. Comment on their morphological adaptations.
January		Ch15- Biodiversity and its Conservation	

February	Revision			
March	TERM II			
PT1	PT 2	PT 3	Term 1	Term 2
Ch 5,6	Ch 2,3,4	Ch 10, 11, 12	Ch 2, 3, 4, 5, 6, 8	Ch 2, 3, 4, 5, 6, 8, 10, 11, 12, 13, 15.



Syllabus
Class-X11
Session 2020-21

DELHI PUBLIC SCHOOL,

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Mathematics

Month	Chapter	Topic	Activity
Apr.	Ch-3 "Matrices"	<i>Concept, notation, order, equality, types of matrices, zero and identity matrix, transpose of a matrix, symmetric and skew symmetric matrices. Operation on matrices: Addition and multiplication and multiplication with a scalar. Simple properties of addition, multiplication and scalar multiplication. Non- commutativity of multiplication of matrices and existence of non-zero matrices whose product is the zero matrix (restrict to square matrices of order 2). Concept of elementary row and column operations. Invertible matrices and proof of the uniqueness of inverse, if it exists; (Here all matrices will have real entries).</i>	Using students show different types of matrices.
May	Ch- 4 "Determinants"	<i>Determinant of a square matrix (up to 3×3 matrices), properties of determinants, minors, co-factors and applications of determinants in finding the area of a triangle. Adjoint and inverse of a square matrix. Consistency, inconsistency and number of solutions of system of linear equations by examples, solving system of linear equations in two or three variables (having unique solution) using inverse of a matrix.</i>	Value based question with diterminants.
Jul.	Ch-5 "Continuity and differentiability" Ch- 2 "Inverse trigonometric functions"	<i>Continuity and differentiability, derivative of composite functions, chain rule, derivative of inverse trigonometric functions, derivative of implicit functions. Concept of exponential and logarithmic functions. Derivatives of logarithmic and exponential functions. Logarithmic differentiation, derivative of functions expressed in parametric forms. Second order derivatives. Definition, range, domain, principal value branch.</i>	Graphical representation of continuity and derivative. Graphical representation of inverse trigonometric functios

	Ch -6 “Application of derivative”	<i>Applications of derivatives: increasing/decreasing functions, tangents and normals, maxima and minima (first derivative test motivated geometrically and second derivative test given as a provable tool). Simple problems (that illustrate basic principles and understanding of the subject as well as real-life situation).</i>	How to use derivative for increasing and decreasing functions, tangent and normal, approximation.
Aug.	Ch-1 “ Relations and functions”	<i>Types of relations :reflexive,symmetric,transitive and equivalence relation.One to one and onto function.</i>	
Sept.	Term-I		
Oct.	Ch- 7 ‘Integrals’ Ch-8 “Applications of Integration”	<i>Integration as inverse process of differentiation.Integration of a variety of functions by substitution, by partial fractions and by parts, Evaluation of simple integrals of the following types and problems based on them. Definite integrals as a limit of a sum, Fundamental Theorem of Calculus (without proof). Basic properties of definite integrals and evaluation of definite integrals. Applications in finding the area under simple curves, especially lines, circles/ parabolas/ellipses (in standard form only), Area between any of the two above said curves (the region should be clearly identifiable).</i>	Representation of limit of sum. Graphical solutions for find area bounded by different types of curves.
Nov.	Ch-9 “Differential equation” Ch- 12 ‘Linear programming’ Ch -10 ‘Vectors’	<i>Definition, order and degree, general and particular solutions of a differential equation .formation of differential equation whose general solution is given .Solution of differential equations by method of separation of variables, solutions of homogeneous differential equations of first order and first degree. Solutions of linear differential equation of the type: $(d y/d x) + p y = q$, where p and q are functions of x or constants. $(d x/d y) + p x = q$, where p and q are functions of y or constants. Introduction, related terminology such as constraints, objective function, optimization, different types of linear programming (L.P.) problems, mathematical formulation of L.P. problems, graphical method of solution for problems in two variables, feasible and infeasible regions (bounded or unbounded), feasible and infeasible solutions, optimal feasible solutions (up to three non-trivial constraints) Vectors and scalars, magnitude and direction of a vector.Direction cosines and direction ratios of a vector. Types of vectors (equal, unit, zero, parallel and collinear vectors), position vector of a point, negative of a vector, components of a vector, addition of vectors, multiplication of a vector by a scalar, position vector of a point dividing a line segment in a given ratio. Definition, Geometrical Interpretation, properties and application of scalar (dot)</i>	Solution of linear inequations by using graphs. To verify geometrically properties of vectors.

		<i>product of vectors, vector (cross) product of vectors, scalar triple product of vectors..</i>	
Dec.	Ch-12 “Three dimensional geometry”	Direction cosines and direction ratios of a line joining two points. Cartesian equation and vector equation of a line, coplanar and skew lines, shortest distance between two lines. Cartesian and vector equation of a plane. Angle between (i) two lines, (ii) two planes, (iii) a line and a plane. Distance of a point from a plane.	Imagination of a point, equation line and equation of plane in space
	Ch -13 “Probability”	<i>Conditional probability, multiplication theorem on probability, independent events, total probability, Bayes’ theorem, Random variable and its probability distribution.</i>	Practical examples related with conditional probability and Bayes theorem,
Jan.		Revision	
Feb	Revision		
Mar	Term-II		

<i>SUBJECT</i>	<i>PT – 1</i>	<i>PT- 2</i>	<i>PT – 3</i>
<i>MATHS</i>	<i>Ch- 3,4</i>	<i>Ch – 2 ,5,EX-6.1,6.2,6.3</i>	<i>Ch - 7,8,9,12</i>

<i>SUBJECT</i>	<i>TERM – 1</i>	<i>TERM - 2</i>
<i>MATHS</i>	<i>Ch- 1,2,3,4,5,6</i>	<i>ALL CHAPTERS</i>



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MONTHLY SYLLABUS FOR CLASS - 12th (2020-21)
SUBJECT: Physical Education

MONTH	UNIT	INTRODUCTION	
APRIL	Planning in sports	Ch-1. Meaning & objectives of planning, various committees & responsibilities	
MAY	„	Tournament- Knock-Out, league or Round Robin & Combination ,Procedure to Draw Fixture -Knock- out (Bye & Seeding) League (Staircase & Cyclic)	
JULY	Sports & Nutrition	Balanced Diet & Nutrition : Macro & Micro Nutrients, Nutritive & Non- Non Nutritive components of diet ,Eating for weight control- A healthy Weight, The pitffals of dieting, Food Intolerance & Food myths	
	YOGA & Lifestyle	Asanas as preventive measure, obesity Diabetes ,Ashtma Hypertension	
AUGUST	Physical Education &	Concept of Disability & Disorder, Types of Disability, its causes &	

		Sports for CWSN	Nature, Types of Disorder its cause & Nature, Disability Etiquettes, Strategies to make phy activity assessable for CWSN	
	..	Children & woman in sports	Motor develop & factors affecting it, Exercise Guidelines at different stages of growth & Development, common postural Deformities - Knock knee, Flat Foot, Round shoulders etc. participation of woman in India	
SEPTEMBER EXAM				
OCTOBER		Test & Measurement in Sports	Motor Fitness test, Push Ups measurement of Cardio Vascular Fitness, Rikli & Jones	
NOVEMBER		Physiology & Injuries in Sports	Physiological factor determining component of physical Fitness, Effect of exercise on Cardio Respiratory System, Muscular System, Sports Injuries, First Aid	
..		Biomechanics & Sports	Meaning and importance of Biomechanics in Sports, Types of movement, Newton's law of Motion & its applications in Sports	

	DECEMBER	Psychology & Sports	Personality, it's definition & Types, Motivation, its type & techniques, Meaning, Concept & Types of Aggressions in Sports	
	..	Training in Sports	Strength, Endurance, Speed ,Flexibility, Coordinative	
	JANUARY	Practical	Physical Fitness Test ,Proficiency in Games and Sports, Yogic practices, Record File, Viva Voce, All Games	
	FEBRUARY	REVISION		
TERM-II				

PT-I		
	Ch-1.	
PT-II	Ch- 2, ch -3, ch -4, ch -5.	
PT-III	Ch- 6 , Ch -7 ,ch -8, ch -9 ,10	
TERM-I	Ch -1 , ch -ch -4, ch, -6, ch -7, ch- 8 ch -10	
TERM-II	Whole Syllabus	