



Delhi Public School, Barasat

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CBSE Affiliation No. 2430391

TERMWISE SYLLABUS (2026-27)

CLASS-XI

STREAM- SCIENCE

SUBJECT- ENGLISH CORE (301)

Months	Theory	Practical
UT 1		
April to June	HORNBILL 1. Portrait of a Lady 2. A Photograph 3. The Laburnum Top SNAPSHOTS 1. Summer of Beautiful White Horse 2. The Address Short Writing 1. Poster Making 2. Advertisement - Classified Long Writing 1. Speech Writing Reading 1. Comprehension- Factual/Case Based 2. Note making and Summarizing Integrated Grammar Practices 1. Gap filling 2. Tenses 3. Reordering of sentences 4. Transformation of sentences 5. Clauses	SEA Projects (Topics to be assigned in class)
HALF YEARLY EXAMINATION		
July to Aug	HORNBILL 1. Discovering Tut 2. We Are Not Afraid To Die 3. Voice of Rain 4. Childhood SNAPSHOTS 1. Birth Short Writing	SEA Projects (Topics to be assigned in class), ALS Project





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	1. Poster Making 2. Advertisement - Classified Long Writing 1. Speech Writing 2. Debate Writing Reading 1. Comprehension- Factual/Case Based/Literary/ Descriptive 2. Note making and Summarizing Integrated Grammar Practices 1. Gap filling 2. Tenses 3. Reordering of sentences 4. Transformation of sentences 5. Clauses (The entire UT 1 syllabus will be included in Half-Yearly Examination)	
UT2		
Sept to Nov	HORNBILL 1. Silk Road 2. Father to Son 3. The Adventure SNAPSHOTS 1. Mother's Day 2. Tale of the Melon City Short Writing 1. Poster Making 2. Advertisement- Classified Long Writing 1. Speech Writing 2. Debate Writing Reading 1. Comprehension- Factual/Case Based/Literary/ Descriptive 2. Note making and Summarizing Integrated Grammar Practices 1. Gap filling 2. Tense 3. Reordering of sentences 4. Transformation of sentences 5. Clauses (The entire UT 1 and Half-Yearly syllabus will be included in UT 2)	SEA Projects (Topics to be assigned in class), ALS Project





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ANNUAL EXAMINATION

Dec to Feb	Entire syllabus as per the guidelines of CBSE for the session 2026-2027	Final ALS Project

**** SUBJECT TO CHANGE**

SUBJECT- CHEMISTRY (043)

Months	Theory	Practical
UT 1		
April to June	1. Some Basic Concepts Of Chemistry 2. Structure Of Atom 3. Classification Of Elements And Periodicity In Properties	1. Learn to operate a mechanical balance/electronic balance. 2. Preparation of standard solution of Oxalic acid and sodium carbonate
HALF YEARLY EXAMINATION		
July to Aug	1. Chemical Bonding and Molecular Structure 2. Redox Reaction 3. All chapters from UT 1 will be included	Determination of strength of a given solution of Sodium hydroxide by titrating it against standard solution of Oxalic acid.
UT2		
Sept to Nov	1. Organic Chemistry- Some Basic Principles and Techniques 2. Hydrocarbons	Determination of one anion and one cation in a given salt Identification of Cations- Pb^{2+} , Cu^{2+} , As^{3+} , Al^{3+} , Fe^{3+} , Mn^{2+} , Ni^{2+} , Zn^{2+} , Co^{2+} , Ca^{2+} , Sr^{2+} , Ba^{2+} , Mg^{2+} , NH_4^+
ANNUAL EXAMINATION		
Dec to Feb	1. Thermodynamics 2. Equilibrium 3. All chapters from half yearly and UT 2 will be included	Identification of Anions – CO_3^{2-} , S^{2-} , NO_2^- , SO_3^{2-} , SO_4^{2-} , NO_3^- , Cl^- , Br^- , I^- , PO_4^{3-} , CH_3COO^- (Note: Insoluble salts excluded)

**** SUBJECT TO CHANGE**





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SUBJECT-BIOLOGY (044)

Months	Theory	Practical
UT 1		
April to June	<u>UNIT I</u> Diversity Of Living Organism. 1. The Living World 2. Biological Classification 3. Plant Kingdom 4. Animal Kingdom <u>UNIT II</u> Structural Organisation in Plants and Animals 5. Morphology of Flowering Plants 6. Anatomy of flowering Plants 7. Structural organization in Animals	Study and observe Section –B (Spotting) 1. Parts of a compound microscope. 2. Specimens: Specimens/slides/models and identification with reasons - Bacteria, Oscillatoria, Spirogyra, Rhizopus, mushroom, yeast, liverwort, moss, fern, pine, monocotyledonous plant, one dicotyledonous plant and one lichen. 3. Virtual specimens/slides/models and identifying features of - Amoeba, Hydra, liver fluke, Ascaris, leech, earthworm, prawn, silkworm, honey bee, snail, starfish, shark, rohu, frog, lizard, pigeon and rabbit., Art Integrated Activity: Prepare a power point presentation on Biodiversity and Online Intersection class XI Panel Discussion with English and Biology faculty .
HALF YEARLY EXAMINATION		
July to Aug	<u>UNIT II UNIT III</u> Cell Structure and Function 8. Cell – The Unit of Life 9. Biomolecules 10. Cell Cycle and Cell Division	A: List of Experiments 1. Study and describe locally available common flowering plants, from family Solanaceae (Poaceae, Asteraceae or Brassicaceae can be substituted in case of particular geographical location) including dissection and display of floral whorls, anther and ovary to show number of chambers (floral formulae and floral diagrams), type of root (tap and adventitious); type of stem (herbaceous and woody); leaf (arrangement, shape, venation, simple and compound).





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		5. Study of distribution of stomata on the upper and lower surfaces of leaves 2. Preparation and study of T.S. of dicot and monocot roots and stems (primary). 3. Study of osmosis by potato osmometer. 4. Study of plasmolysis in epidermal peels (e.g. Rhoeo/lily leaves or flashy scale leaves of onion bulb). Spotting Section-B Exp 5. Different types of inflorescence (cymose and racemose). Exp 4. Study of different phases of mitosis onion root tip, and animal cells (grasshopper). Art Integrated Activity Prepare Mitosis and Meiosis Cards Using Beautiful colours and creativity to show crossing over, terminalisation of chiasmata, chromosomes moving over spindle fibers . solve it like a jig saw puzzle online in group of 6.
UT2		
Sept to Nov	UNIT IV Plant Physiology 11. Photosynthesis in higher Plants 12. Respiration in Plants 13. Plant Growth and Development Human Physiology 14. Breathing and Exchange of Gases 15. Body Fluids and Circulation 16. Excretory Products and Their Elimination	A: List of Experiments 5. Study of distribution of stomata on the upper and lower surfaces of leaves. 6. Comparative study of the rates of transpiration in the upper and lower surfaces of leaves. 7. Test for the presence of sugar, starch, proteins and fats in suitable plant and animal materials. 8. Separation of plant pigments through paper chromatography. 9. Study of the rate of respiration in flower buds/leaf tissue and germinating seeds. 10. Test for presence of urea in urine. 11. Test for presence of sugar in urine. 12. Test for presence of albumin in urine. 13. Test for presence of bile salts in urine.





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		CROSS CURRICULUM (Inter disciplinary linking with Chemistry) Chapter- 9: Biomolecules To teach the chapter Interdisciplinary approach can integrate Subjects like Biology with Chemistry. Chemical constituents of living cells : Biomolecules, structure of proteins, carbohydrates, lipids , nucleic acids to be taught with the help of Chemical formula
ANNUAL EXAMINATION		
Dec to Feb	UNIT V Human Physiology 17. Locomotion and Movement 18. Neural Control and Coordination 19. Chemical Coordination and Integration NOTE: Annual examination will be conducted on (Entire syllabus as per the guidelines of CBSE for the session 2024- 2025)	B. Study and Observe the following (spotting): Human skeleton and different types of joints with the help of virtual images/models only Sports Integrated Activity Yoga and Muscle Contraction and Relaxation- Spread your mats and perform : Sukhasana, Tadasana, Shashankasana, Padamasana, Naukasana, Vrikshasana.

**** SUBJECT TO CHANGE**

SUBJECT- PHYSICS (042)

Months	Theory	Practical
UT 1		
April to June	1. Physical World, units and Measurement 2. Motion in a Straight line 3. Motion in a Plane 	1. To measure diameter of a small spherical/cylindrical body and to measure internal diameter and depth of a given beaker/calorimeter using Vernier Callipers and hence find its volume. 2. To measure diameter of a given wire and thickness of a given sheet using screw gauge.



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HALF YEARLY EXAMINATION

July to Aug	1. Laws of Motion 2. Work, Energy and Power 3. System of Particles and Rotational Motion. 4. Motion in a Plane (Revision)	To determine the mass of two different objects using a beam balance.
UT2		
Sept to Nov	1. Gravitation 2. Mechanical Properties of Solid 3. Mechanical Properties of Fluids 4. Thermal Properties of matter	Using a simple pendulum, plot its L-T 2 graph and use it to find the effective length of second's pendulum.
ANNUAL EXAMINATION		
Dec to Feb	1. Thermodynamics 2. Kinetic Theory of Gas 3. Oscillations 4. Waves All chapters from half yearly and UT 2 will be included	To study variation of time period of a simple pendulum of a given length by taking bobs of same size but different masses and interpret the result.

**** SUBJECT TO CHANGE**

SUBJECT- COMPUTER SCIENCE (083)

Months	Theory	Practical
UT 1		
April to June	1. Computer Systems and Organisation. 2. Computational Thinking and Programming. (Upto python Operator, Data type)	1. Print "Hello World" through IDLE 2. Write python statement
HALF YEARLY EXAMINATION		
July to Aug	1. Computational Thinking and Programming and String (Upto Loop and Nested Loop structure and String handling)	1. Solving expression using Python statement. 2. Program on If-Else statement. 3. Programs on Loop. 4. Programs on Nested Loop. 5. Programs on String 6. String functions



Unit of: M/S Maa Saraswati Gyan Mandir Education Society, Pirgacha, Taki Road, P.O.- Badu, P.S.- Duttapukur,
North 24 Parganas, Kolkata - 700 128 ☎ +91 33 6820 4454 / 55, 📠 +91 98361 23331 / 98749 23500

✉ info@dpsbarasat.com, 🌐 www.dpsbarasat.com



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UT2		
Sept to Nov	1. Computational Thinking and Programming (Upto List, Tuple and Dictionary)	1. Programs on List. 2. List function. 3. Programs on Tuple. 4. Tuple function 5. Programs on python dictionary.
ANNUAL EXAMINATION		
Dec to Feb	1. Computational Thinking and Programming (Introduction to Python modules) 2. Society, Law and Ethics	1. Revision.

**** SUBJECT TO CHANGE**

SUBJECT- MATHEMATICS (041)

Months	Theory	Practical
UT 1		
April to June	1. Sets 2. Relation And Function 3. Trigonometry 4. Trigonometric Function	Project
HALF YEARLY EXAMINATION		
July to Aug	1. Sets 2. Relation And Function 3. Trigonometry 4. Trigonometric Function 5. Complex Number and Quadratic Equation 6. Linear Inequalities 7. Sequence And Series 8. Straight Lines	Project
UT2		
Sept to Nov	9. Permutation And Combination 10. Binomial Theorem 11. Conic Section 12. Introduction To Three-Dimensional Geometry	Project





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ANNUAL EXAMINATION

Dec to Feb	1. Sets 2. Relation And Function 3. Trigonometry 4. Trigonometric Function 5. Complex Number and Quadratic Equation 6. Linear Inequalities 7. Sequence And Series 8. Straight Lines 9. Permutation And Combination 10. Binomial Theorem 11. Conic Section 12. Introduction To Three-Dimensional Geometry 13. Probability 14. Limits And Derivatives	Project

**** SUBJECT TO CHANGE**

SUBJECT – PHYSICAL EDUCATION (048)

Months	Theory	Practical
UT 1		
April to June	1. Changing Trends & careers in Physical Education 2. Fundamentals of Anatomy, Physiology in Sports	1. Physical Fitness Test 2. Proficiency in Games & Sports 3. Yogic Practices 4. Record Files -1 (on a Specific Games from Syllabus)
HALF YEARLY EXAMINATION		
July to Aug	1. Olympics Value Education 2. Training and Doping in Sports 3. Physical Fitness, Health and Wellness	1. Physical Fitness Test 2. Proficiency in Games & Sports 3. Yogic Practices 4. Record Files -1 (on a Specific Games from Syllabus)
UT2		
Sept to Nov	1. Test, Measurement and Evaluation 2. Yoga	1. Physical Fitness Test 2. Proficiency in Games & Sports 3. Yogic Practices



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	3. Fundamentals of Kinesiology and Biomechanics in Sports	4. Record Files -1 (Yoga) 5. Record File -2 (Fitness Test administration- SAI Khelo-India Test)
ANNUAL EXAMINATION		
Dec to Feb	1. Psychology and Sports 2. Physical Education and Sports for CWSN	1. Physical Fitness Test 2. Proficiency in Games & Sports 3. Yogic Practices 4. Record Files -1 (Yoga) 5. Record File -2 (Fitness Test administration- SAI Khelo-India Test)

**** SUBJECT TO CHANGE**

SUBJECT – ECONOMICS (030)

Months	Theory	Practical
UT 1		
April to June	Microeconomics: 1. Economics and Economy 2. Problems of an Economy Statistics: 1. Concept of Economics and Significance of Statistics in Economics 2. Collection of Data 3. Census and Sample Methods of collection of Data.	Project
HALF YEARLY EXAMINATION		
July to Aug	Microeconomics: 1. Consumer's Equilibrium-Utility Analysis 2. Consumer's Equilibrium Indifference Curve analysis 3. Theory of Demand 4. Price Elasticity of Demand Statistics: 1. Census and Sample Methods of collection of Data. 2. Organisation of Data.	Project





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	3. Presentation of Data--Textual and Tabular Presentation. 4. Diagrammatic Presentation of Data-- Bar Diagrams and Pie Diagrams 5. Frequency Diagrams: Histogram, Polygon and Ogive.	
UT2		
Sept to Nov	Microeconomics: 1. Production Function and Returns to a Factor 2. Concepts of Cost. 3. Concept of Revenue Statistics: 1. Arithmetic Line-Graphs or Time Series Graphs. 2. Measures of Central Tendency-Arithmetic Mean. 3. Measures of Central Tendency-Median and Mode	Project
ANNUAL EXAMINATION		
Dec to Feb	Microeconomics: 1. Concept of Revenue 2. Producer's Equilibrium 3. Theory of Supply. 4. Forms of Market 5. Market Equilibrium Under Perfect Competition and Effects of Shifts in Demand and Supply Statistics: 1. Measures of Central Tendency- Median and Mode 2. Measures of Dispersion 3. Correlation. 4. Index Numbers	Project



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SUBJECT- PSYCHOLOGY (037)

Months	Theory	Practical
UT 1		
April to June	1. Understanding Psychology 2. Methods of Enquiry in Psychology	1. Case Study
HALF YEARLY EXAMINATION		
July to Aug	1. Human Development 2. Sensory, Attentional and Perceptual processes 3. Learning 4. All chapters from UT 1 will be included	1. On Attention
UT2		
Sept to Nov	1. Human Memory 2. Thinking 3. Motivation and Emotion	1. On Learning
ANNUAL EXAMINATION		
Dec to Feb	1. Full Syllabus of CBSE 2. Revision	1. Revision

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SUBJECT- PAINTING (049)

Months	Theory	Practical
UT 1		
April to June	Pre- historic Rock Paintings: Appreciation of Ajanta Caves (Padmapani Bodhisattva).	Nature and Object Study: Pencil shading of 2–3 natural/geometric forms (e.g., fruits, plants, cones, cylinders) focusing on light, shade, and perspective.
HALF YEARLY EXAMINATION		
July to Aug	Arts of the Indus Valley : Harappan Pottery, and Seals (e.g., Bull from Mohenjo-daro)	Painting Composition: Creative painting based on subjects like life studies, imaginary, or traditional scenes using water/poster colors.
UT2		
Sept to Nov	Buddhist, Jain, and Hindu Art: Study of sculptures from Mauryan, Shunga, Kushana, and Gupta periods.	Architectural scenery, Daily Life Composition painting.
ANNUAL EXAMINATION		
Dec to Feb	Temple Sculptures and Bronzes: Overview of Indian temple architecture and sculpture from the 6th to 13th Century A.D..	Portfolio Assessment: Submission of a portfolio containing a record of the year's performance, including five selected sketches/drawings and two best paintings.

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J. Jain
23/4/26
PRINCIPAL
DELHI PUBLIC SCHOOL
BARASAT