

**DPS STS School Dhaka**  
**Session 2023-24**  
**Final Term Syllabus Breakup**  
**Grade 9**

Subject	TERM 1	TERM 2	Final Term Examination Syllabus
	July to December	January to May	(Term 1 + Term 2)
ENGLISH	Reading Comprehension Summary Writing Writer's effects Coomposition Writing [Descriptive & Narrative] Response Writing: Interview, News Report, Article, Informal Letter	Reading Comprehension Summary Writing Writer's effects Coomposition Writing [Descriptive & Narrative] Response Writing: Journal, Speech, Formal Letter, Official Report	Reading Comprehension Summary Writing Writer's effects Coomposition Writing Response Writing: Journal, Article, Speech, Letter [Formal & Informal]
BANGLA	<p><b>Paper 1: Composition</b>            Section A: Letter            বিভাগ ক: চিঠি            Section B: Essay            বিভাগ খ: রচনা</p> <p><b>Paper 2: Language Usage and Comprehension</b>            Section A: Language Usage            বিভাগ ক: স্বরসন্ধি , বাগধারা এবং প্রবচন , বাক্যরূপান্তর, ক্লেজ পরিচ্ছেদ            Questions will include combination or separation of words, idioms and proverbs, sentence transformation and a cloze passage.            Section B: Comprehension (multiple-choice questions)            বিভাগ খ: বোধজ্ঞানের বহু বিকল্প প্রশ্ন            Section C: Comprehension (open-ended questions) and Vocabulary            বিভাগ গ: বোধজ্ঞানের মুক্ত প্রশ্ন ও শব্দার্থ</p>	<p><b>Paper 1: Composition</b>            Section A: Letter or Report            বিভাগ ক: চিঠি এবং প্রতিবেদন            Section B: Essay            বিভাগ খ: রচনা</p> <p><b>Paper 2: Language Usage and Comprehension</b>            Section A: Language Usage            বিভাগ ক: ব্যঙ্গন সন্ধি, বাগধারা এবং প্রবচন , বাক্যরূপান্তর, ক্লেজ পরিচ্ছেদ            Questions will include combination or separation of words, idioms and proverbs, sentence transformation and a cloze passage.            Section B: Comprehension (multiple-choice questions)            বিভাগ খ: বোধজ্ঞানের বহু বিকল্প প্রশ্ন            Section C: Comprehension (open-ended questions) and Vocabulary            বিভাগ গ: বোধজ্ঞানের মুক্ত প্রশ্ন ও শব্দার্থ</p>	<p><b>Paper 1: Composition</b>            Section A: Letter            বিভাগ ক: চিঠি            Section B: Essay            বিভাগ খ: রচনা</p> <p><b>Paper 2: Language Usage and Comprehension</b>            Section A: Language Usage            বিভাগ ক: বাক্যরূপান্তর, ক্লেজ পরিচ্ছেদ            Section B: Comprehension (multiple-choice questions)            বিভাগ খ: বোধজ্ঞানের বহু বিকল্প প্রশ্ন            Section C: Comprehension (open-ended questions) and Vocabulary            বিভাগ গ: বোধজ্ঞানের মুক্ত প্রশ্ন ও শব্দার্থ</p>

GENERAL MATHS

"1. Numbers:

- Real numbers,
- Numbers in standard form,
- Factors, multiples, HCF and LCM,
- Four operations,
- Order by magnitude,
- Directed numbers,
- Approximation and estimation,
- Recurring to fractions,
- Upper and lower bounds,
- Surds

2. Set language and notations:

- Set notations and problems involving set,
- Venn diagram,
- Word problems and real-life applications

3. Algebra:

- Expanding and simplifying,
- Factorizing,
- Making subject,
- Express as a single fraction,
- Solving linear equations,
- Simultaneous equations,
- Forming and solving Quadratic equations,
- Sketching curves,
- Constructing graphs
- Differentiation and its applications

4. Geometry:

- Angles between the parallel lines,
- Angles at a point, in triangle and quadrilateral,
- Polygon,
- similarity,
- Similar shapes

5. Coordinate geometry:

- Midpoint, gradient and length of two points,
- Equation of straight line,
- Determine the equation of a straight line parallel to a given line,
- Find the gradient of parallel and perpendicular lines.

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**1. Managing money :**

- Earning money
- Borrowing and investing money
- Buying and selling

**2. Symmetry:**

- Symmetry in two dimensions
- Symmetry in three dimensions
- Symmetry properties of circles
- Angle relationships in circles

**3. Functions:**

- Understand functions, domain and range and use function notation.
- Understand and find inverse functions  $f^{-1}(x)$ .
- Form composite functions as defined by  $gf(x) = g(f(x))$ .

**4. Ratio, Rate and Proportion:**

- Working with ratio
- Ratio and scale
- Rates
- Kinematic graphs
- Proportion
- Direct and inverse proportion in algebraic terms
- Increasing and decreasing amounts by a given ratio

**5. Curved graphs:**

- Drawing quadratic graphs (the parabola)
- Drawing reciprocal graphs (the hyperbola)
- Using graphs to solve quadratic equations
- Using graphs to solve simultaneous linear and non-linear equations
- Other non-linear graphs
- Finding the gradient of a curve
- Derived functions

**6. Perimeter, area and volume:**

- Perimeter and area in two dimensions
- Three-dimensional objects
- Surface areas and volumes of solids

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**Including all topics of Mid Term**

ADDITIONAL MATHS	<p>Chapter 2 Simultaneous equations and Quadratics  Chapter 4 Factors of polynomials  Chapter 5 Equations, Inequalities and Graphs  Chapter 6 Logarithmic and exponential functions</p>	<p>Chapter 7 Straight Line Graphs and Equation of circle  Chapter 1 Functions  Chapter 8 Circular measure  Chapter 11 Series</p>	<p><b>Chapter 7 Straight Line Graphs and Equation of circle</b>  <b>Chapter 1 Functions</b>  <b>Chapter 8 Circular measure</b>  <b>Chapter 11 Series</b>  <b>Mid term syllabus that will also be included:</b>  <b>Chapter 2 Simultaneous equations and Quadratics</b>  <b>Chapter 4 Factors of polynomials</b>  <b>Chapter 5 Equations, Inequalities and Graphs</b>  <b>Chapter 6 Logarithmic and exponential functions</b></p>
CHEMISTRY	<p>Unit 1: Particle theory,  Unit 2: Separating substances,  Unit 3: Atoms, elements &amp; compounds,  Unit 4: Structure &amp; bonding,  Unit 5: Formulae &amp; equation,  Unit 6: Chemical calculations,  Unit 7: Electricity &amp; chemistry</p>	<p>Unit 8: Chemical energetics,  Unit 9: Rates of reactions,  Unit 10: Chemical reactions,  Unit 11: Acids &amp; bases,  Unit 12: Making &amp; identifying salts,  Unit 13: The Periodic Table,  Unit 14: Metals &amp; reactivity,  Unit 15: More about metals,  Unit 16: Compounds of nitrogen &amp; sulfur,  Unit 17: Environmental chemistry</p>	<p>Unit 8: Chemical energetics,  Unit 9: Rates of reactions,  Unit 10: Chemical reactions,  Unit 11: Acids &amp; bases,  Unit 12: Making &amp; identifying salts,  Unit 13: The Periodic Table,  Unit 14: Metals &amp; reactivity,  Unit 15: More about metals,  Unit 16: Compounds of nitrogen &amp; sulfur,  Unit 17: Environmental chemistry  All Chapters from term 1</p>
PHYSICS	<p>1 Motion, forces and energy  1.1 Physical quantities and measurement techniques  1.2 Motion  1.3 Mass and weight  1.4 Density  1.5 Forces  1.6 Momentum  1.7 Energy, work and power  1.8 Pressure</p>	<p>2 Thermal physics  2.1 Kinetic particle model of matter  2.2 Thermal properties and temperature  2.3 Transfer of thermal energy  3 Waves  3.1 General properties of waves  3.2 Light  3.3 Electromagnetic spectrum  3.4 Sound  4 Electricity and magnetism  4.2 Electrical quantities</p>	<p>"2 Thermal physics  2.1 Kinetic particle model of matter  2.2 Thermal properties and temperature  2.3 Transfer of thermal energy  3 Waves  3.1 General properties of waves  3.2 Light  3.3 Electromagnetic spectrum  3.4 Sound  4 Electricity and magnetism  4.2 Electrical quantities. + REVISION TOPICS FROM TERM 1.</p>

BIOLOGY	Chapter1 Characteristics and classification of living organisms Chapter2 Organisation of the organism Chapter3 Movement into and out of cells Chapter4 Biological molecules Chapter5 Enzymes Chapter6 Plant nutrition	Chapter 7: Human Nutrition Chapter 8: Transport in Plants Chapter 9: Transport in Animals Chapter 10: Diseases and Immunity Chapter 11: Respiration and Gas Exchange Chapter 12: Coordination and Response Chapter 13: Excretion and Homeostasis Chapter 16: Chromosome, gene and proteins Chapter 17: Variation and selection	Chapter 7: Human Nutrition Chapter 8: Transport in Plants Chapter 9: Transport in Animals Chapter 10: Diseases and Immunity Chapter 11: Respiration and Gas Exchange Chapter 12: Coordination and Response Chapter 13: Excretion and Homeostasis Chapter 16: Chromosome, gene and proteins Chapter 17: Variation and selection <b>All Chapters from term 1: 1,2,3,4,5 and 6</b>
ACCOUNTING	1 Introduction to accounting 2 Double entry book-keeping – Part A 3 The trial balance 4 Double entry book-keeping – Part B 5 Petty cash books 6 Business documents 7 Books of prime entry 8 Financial statements – Part A, 9 Financial statements – Part B 11 Other payables and other receivables, 13 Irrecoverable debts and provisions for doubtful debts,	12 Accounting for depreciation and disposal of non-current assets 14 Bank reconciliation statements, 19 Partnerships 15 Journal entries and correction of errors 16 Control accounts 17 Incomplete records 20 Manufacturing accounts	12 Accounting for depreciation and disposal of non-current assets 14 Bank reconciliation statements, 19 Partnerships 15 Journal entries and correction of errors 16 Control accounts 17 Incomplete records 20 Manufacturing accounts All Chapters from term 1
BUSINESS STUDIES	Chapter-1:Business activity Chapter-2:Classification of business Chapter-3:Enterprise, business growth and size Chapter-4:Types of business organization Chapter-5:Business objectives and stakeholder objectives Chapter-6:Motivating employees Chapter-7:Organisation and management Chapter-8:Recruitment, selection and training of employees Chapter-9:Internal and external communication Chapter-10:Market, competition and the customer	Chapter-11: Market research Chapter-12: Marketing Mix-Product & price Chapter-13:Marketing Mix-Place & promotion Chapter-14:Marketing strategy Chapter-15:Production of goods and services Chapter-16:Costs, scale of production and break even analysis Chapter-17:Achieving quality production Chapter-18:Location decisions	Chapter-1:Business activity Chapter-2:Classification of business Chapter-3:Enterprise, business growth and size Chapter-4:Types of business organization Chapter-5:Business objectives and stakeholder objectives Chapter-6:Motivating employees Chapter-7:Organisation and management Chapter-8:Recruitment, selection and training of employees Chapter-9:Internal and external communication Chapter-10:Market, competition and the customer Chapter-11: Market research Chapter-12: Marketing Mix-Product & price Chapter-13:Marketing Mix-Place & promotion Chapter-14:Marketing strategy Chapter-15:Production of goods and services Chapter-16:Costs, scale of production and break even analysis Chapter-17:Achieving quality production Chapter-18:Location decisions

COMMERRCE	<p>Chapter 1: Chain of Production  Chapter 2: Specialisation and Division of Labour  Chapter 3: Commerce  Chapter 4: Relationship Between Industry, Commerce and Direct Services  Chapter 5: Role of Retailer in the Chain of Distribution  Chapter 6: Types of Retailer  Chapter 7: Large-scale and Small-Scale Retailing  Chapter 8: Selling Techniques and Methods and the Implications of e-Commerce  Chapter 9: Trends in Retailing  Chapter 10: Use of Credit  Chapter 11: Types of Credit  Chapter 12: Role of the Wholesaler in the Chain of Distribution  Chapter 13: Functions and Services of the Wholesaler</p>	<p>Chapter 14: Intermediaries in the Wholesale Trade  Chapter 15: Documents of Home Trade  Chapter 16: Terms of Payment  Chapter 17: Importance of International Trade  Chapter 18: Balance of Trade and Balance of Payments  Chapter 19: COnsumers Authorities  Chapter 20: Free Trade, Trading Blocs Protectionism  Chapter 21: Difficulties faced by Exports and Imports  Chapter 22: Role of Advertising  Chapter 23: Advertising Media  Chapter 24: Methods of Appeal (Devices)  Chapter 25: Sales Promotions  Chapter 26: Trends in Advertising  Chapter 27: Importance of Communications in Trade and Global Market  Chapter 28: Methods of Communications  Chapter 29: Postal Services  Chapter 30: Trends in Communications</p>	<p>Chapter 14: Intermediaries in the Wholesale Trade  Chapter 15: Documents of Home Trade  Chapter 16: Terms of Payment  Chapter 17: Importance of International Trade  Chapter 18: Balance of Trade and Balance of Payments  Chapter 19: COnsumers Authorities  Chapter 20: Free Trade, Trading Blocs Protectionism  Chapter 21: Difficulties faced by Exports and Imports  Chapter 22: Role of Advertising  Chapter 23: Advertising Media  Chapter 24: Methods of Appeal (Devices)  Chapter 25: Sales Promotions  Chapter 26: Trends in Advertising  Chapter 27: Importance of Communications in Trade and Global Market  Chapter 28: Methods of Communications  Chapter 29: Postal Services  Chapter 30: Trends in Communications</p> <p>All Chapters from term 1:</p>
ECONOMICS	Chapters: 1 to 22	Chapters: 22 to 35	Chapters: 1 to 35
COMPUTER SCIENCE	<p>PAPER 1  1 DATA REPRESENTATION  2 DATA TRANSMISSION  3 HARDWARE  3.1 Computer architecture</p> <p>PAPER 2  7 ALGORITHM DESIGN &amp; PROBLEM-SOLVING</p>	<p>PAPER 1  3 HARDWARE  4 SOFTWARE  5 THE INTERNET &amp; ITS USES</p> <p>PAPER 2  7 ALGORITHM DESIGN &amp; PROBLEM-SOLVING  9 Database  10 Boolean Logic</p>	<p>PAPER 1  1 DATA REPRESENTATION  2 DATA TRANSMISSION  3 HARDWARE  4 SOFTWARE  5 THE INTERNET &amp; ITS USES</p> <p>PAPER 2  7 ALGORITHM DESIGN &amp; PROBLEM-SOLVING  9 Database  10 Boolean Logic</p>

ENVIRONMENT MANAGMENT	Chapter 1: Rocks and Minerals Chapter 2: Energy and the environment Chapter 3: Agriculture and the Environment	Chapter 4: Water and its management Chapter 5. Oceans and fisheries Chapter 6: Managing Natural hazards Chapter 7: The atmosphere and human activities	Chapter 1: Rocks and Minerals Chapter 2: Energy and the environment Chapter 3: Agriculture and the Environment Chapter 4 Water and its management Chapter 5. Oceans and fisheries Chapter 6: Managing Natural hazards Chapter 7: The atmosphere and human activities
FRENCH	Unité 1 Mon quotidien : Une journée typique entre maison et collège Les activités quotidiennes et les horaires Les tâches ménagères et les petits boulots Les moyens de transports Le collège: matières, horaires et vie scolaire Unité 2 La pleine forme Les aliments, La santé Manger equilibre Les cafés, les restaurants Les plats traditionnels Les problemes de sante Les conseils de santé Unité 3 Une famille aa l'étranger Un séjour dans une famille francophone La famille La maison Les premiers contacts Les lieux et activités de loisirs Accepter ou refuser une invitation Acheter des billets Commander un repas Unité 4 Faites la fête! Les fêtes Les festivals Les jours de fête	Unité 5 Ma ville, demain.....? Là où j'habite Les avantages et les inconvenients L'avenir de ma ville Demander et indiquer le chemin Les problèmes dans les magasins, à la banque, à la poste, aux objets trouvés Unité 6 La nature - amie, ennemie ou victime? La nature L'environnement naturel Le temps et le climat, Unit:7, La grammaire francaise. from the text book. Revision of all previous grammar.	Unité 1 Mon quotidien : Une journée typique entre maison et collège Les activités quotidiennes et les horaires Les tâches ménagères et les petits boulots Les moyens de transports Le collège: matières, horaires et vie scolaire Unité 2 La pleine forme Les aliments, La santé Manger equilibre Les cafés, les restaurants Les plats traditionnels Les problemes de sante Les conseils de santé Unité 3 Une famille aa l'étranger Un séjour dans une famille francophone La famille La maison Les premiers contacts Les lieux et activités de loisirs Accepter ou refuser une invitation Acheter des billets Commander un repas Unité 4 Faites la fête! Les fêtes Les festivals Les jours de fête Unité 5 Ma ville, demain.....? Là où j'habite Les avantages et les inconvenients L'avenir de ma ville Demander et indiquer le chemin Les problèmes dans les magasins, à la banque, à la poste, aux objets trouvés Unité 6 La nature - amie, ennemie ou victime? La nature L'environnement naturel Le temps et le climat, Unit:7, La grammaire francaise. from the text book. Revision of all previous grammar.

<p>BANGLADESH STUDIES</p>	<p>Paper: 1  Chapter :3(b) Reasons for the decline of the Mughal empire  Chapter :3(c) The decline of the Mughals in Bengal and the growth of the Nawabs  Chapter :4(a) The arrival of the British  Chapter :4(b) Opposition to the British (Up to Faraizi Movement)  Paper: 2  Chapter :4(c) Floods  Chapter :5(a): Changing Shares of primary, secondary and tertiary  Chapter :6(a): Factors affecting agricultural production  Chapter :6(b): Food crops /Subsistence crops  Chapter :6(c): Cash crops /Commercial crops  <ul style="list-style-type: none"> <li>• Earthquake</li> </ul> </p>	<p>Paper: 1  Chapter :4(b) Opposition to the British (The war of independence Of 1857)  Chapter :4(C) The British government in the subcontinent and events leading to independence in 1947  Chapter :5(b) The problems of national integration between East and West Pakistan  Paper: 2  Chapter :3(b) Fish  Chapter :3(d): Energy  Chapter :5(C): Trends in human development indicator  Chapter :7(b): Types of industries in Bangladesh and their characteristics  Chapter :8(c): The role of the financial sector  Chapter :9(a): Population structure  Chapter :9(b): Population growth  <ul style="list-style-type: none"> <li>• Plate tectonic</li> <li>• River bank erosion</li> </ul> </p>	<p>Term-1  Paper: 1  Chapter :3(b) Reasons for the decline of the Mughal empire  Chapter :3(c) The decline of the Mughals in Bengal and the growth of the Nawabs  Chapter :4(a) The arrival of the British  Chapter :4(b) Opposition to the British (Up to Faraizi Movement)  Paper: 2  Chapter :4(c) Floods  Chapter :5(a): Changing Shares of primary, secondary and tertiary  Chapter :6(a): Factors affecting agricultural production  Chapter :6(b): Food crops /Subsistence crops  Chapter :6(c): Cash crops /Commercial crops  <ul style="list-style-type: none"> <li>• Earthquake</li> </ul> Term-2  Paper: 1  Chapter :4(b) Opposition to the British (The war of independence Of 1857)  Chapter :4(C) The British government in the subcontinent and events leading to independence in 1947  Chapter :5(b) The problems of national integration between East and West Pakistan  Paper: 2  Chapter :3(b) Fish  Chapter :3(d): Energy  Chapter :5(C): Trends in human development indicator  Chapter :7(b): Types of industries in Bangladesh and their characteristics  Chapter :8(c): The role of the financial sector  Chapter :9(a): Population structure  Chapter :9(b): Population growth  <ul style="list-style-type: none"> <li>• Plate tectonic</li> <li>• River bank erosion</li> </ul> </p>
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