

An Educational Initiative of  




**DPS STS SCHOOL**  
DHAKA

Syllabus for Grade 9

First term: Session 2018-19

English

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General Reading Comprehension (unseen)  
Commenting on Writer's Choice of Language  
Summary Writing  
Response Writing: Informal Letter, Informative Speech, Journal Writing  
Free Hand Writing

**Bangla**

**Section A**

**বিভাগ:ক**

**1. Separation/Combination of words**

সন্ধি / সন্ধি বিচ্ছেদ (স্বরসন্ধি, ব্যঞ্জনসন্ধি)

**2. Idioms, Proverbs and Words in Pairs**

বাগধারা, প্রবচন এবং জোড়াশব্দ

**3. Sentence Transformation**

বাক্য রূপান্তর

#### 4. Cloze Passage

বন্ধ অনুচ্ছেদ

### **Section B**

বিভাগ: খ

#### 5. MCQ Comprehension

বোধজ্ঞানের বহু বিকল্প প্রশ্ন

#### 6. OE Comprehension

বোধজ্ঞানের মুক্ত প্রশ্ন

#### 7. Vocabulary

শব্দার্থ

### **Section C**

বিভাগ: গ

#### 8. Letter, Report

চিঠি, প্রতিবেদন

#### 9. Essay

রচনা

## General Mathematics

- **Chapter 5: Algebra-2**
- **Chapter 4: Geometry ( Constructions and loci, Circle theorem)**
- **Chapter 6 : Trigonometry (Three dimensional problems ,Sine and cosine rule)**
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### Add Maths syllabus

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Chapter 11 simple trigonometric identities and Equations

Chapter 12 : Circular Measure

Chapter 13: Permutation and Combination

Chapter 14: Binomial Theorem

- PHYSICS TEXT: PHYSICS A course for 'O' Level
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- CHEW CHENG FOONG
- 1 st term
- Section C: Properties of waves Unit 13 General Wave Properties. Unit 14: Reflection and Refraction of Light. Unit 15: Converging Lens Unit 16: Sound

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## Chemistry

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 Textbook: Essential Chemistry for Cambridge IGCSE by Roger Norris

Sl. No.	Chapter No.	Name of the chapter	Topic
1	Chap: 3 Pg 34-46	Structure and bonding	Topic 3.1- Ionic bonding Topic 3.2-Covalent bonding Topic 3.3- Covalent bonding Topic 3.4-Ionic or covalent Topic 3.5-Giant covalent structure Topic 3.6-Mettalic bonding
2	Chap-4 Pg 48-56	Formulae and equation	Topic 4.1-Chemical formulae Topic 4.2-Working out the formulae Topic 4.3-Chemical equation Topic4.4-More about equations
3	Chap-5 Pg 58-72	Chemical calculation	Topic 5.1-Reacting masses Topic 5.2-Chemical calculations Topic 5.3-How much product Topic 5.4-Percentages and volumes Topic 5.5-Yeild and purity Topic 5.6-More chemical calculations Topic 5.7-Titrations
4	Chap-6 Pg 74-88	Electricity and chemistry	Topic 6.1-Electrolysis Topic 6.2-More about electrolysis Topic 6.3-Explaining electrolysis Topic 6.4-Purifying copper Topic 6.5-Electroplating Topic 6.6-Extracting aluminium Topic 6.7-Conductor and insulators
5	Chap-7 Pg 90-100	Chemical changes	Topic 7.1-Physical and chemical changes Topic 7.2-Energy transfer Topic 7.3-Fuels and energy production Topic 7.4-Energy from electro chemical cells Topic 7.5-Fuel cells
6	Chap-8	Rate of reaction	Topic 7.1-Invetigating rate of reaction

	Pg 102-114		Topic 7.2-Interpreting data Topic 7.3-Surfaces and reaction rate Topic 7.4-Concentration and rate of reaction Topic 7.5-Temperature and rate of reaction Topic 7.6-Light-sensitive reactions
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## Biology syllabus

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### **Grade 9**

Chapter 2 “Cells”

Chapter 8 “Transport in plants”

Chapter 9 “Transport in animals”

Chapter 10 “Pathogen and immunity”

Chapter 13 (13.1 and 13.2) “Coordination and response”

Chapter 20 “Organism and environment”

### **Grade 10**

Environmental Management is given below:

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Chapter: 1 Rocks and mineral and their exploitation

Chapter: 2 Energy and the environment

Chapter: 3 Agriculture and the environment

Chapter: 6 Managing natural hazards

Chapter: 7 The atmosphere and human activities

Chapter: 9 Natural ecosystem and human activities

**Computer Science Grade-9 (First Term Syllabus)**

**Book: Cambridge IGCSE ICT 2<sup>nd</sup> Edition**

**Chapter 6. ICT applications**

**Chapter 7. System of a cycle**

**Chapter 16. Graphs and Charts**

**Chapter 18. Data Manipulation**

**Chapter 19. Presentations**

**Question Pattern:**

**F/B, T/F, One Word Answer, Full Forms,**

**Drawing Diagrams/devices, Short question, Broad Question**

**Theoretical Assessment Pattern:**

1. Multiple choice based on Pictures and practical concept
2. Analytical Questions
3. Diagram/flowchart based on particular topics of a chapter
4. Practical problem solving questions
5. Descriptive questions and steps
6. Advantages and disadvantages
7. Self assessment questions. E.g. Any Innovative Idea has to be explained based on ICT.

**Practical Assessment Pattern:**

1. **Presentation:** Designing master slide, creating chart, inserting image, slide orientation, animation and transitions.
2. **Access:** Import & Designing a table, Inserting data, Form design, report creation, query design, data manipulation.

**Necessary Softwares:** Microsoft Office (Word, Power Point, Excel, Front Page, Access), Dream Weaver CS6

## Economics:

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Chapter 20 - Firms  
Chapter 21 - Firms and Production  
Chapter 22 - Firms, Costs, Revenue and Objectives  
Chapter 23 - Market Structures  
Chapter 24 - The Role of Government  
Chapter 25 - The Macroeconomic Aims of Government

## Accounting

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Chapter Number	Name of chapters
11	Other Payables and Other Receivables
13	Bad debts and provision for doubtful debts
21	Accounts of Manufacturing Business
Notes:	Revision on books of original entry

## Business Studies

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*Text Book: Cambridge IGCSE Business Studies (4<sup>th</sup> edition) Borrington & Stimpson*

### Chapter 16- Marketing Strategy

Justify marketing strategies appropriate to a given situation:

- Importance of different elements of the marketing mix in influencing consumer decisions in given circumstances
- Recommend and justify an appropriate marketing strategy in given circumstances
- The nature and impact of legal controls related to marketing:

- Impact of legal controls on marketing strategy, e.g. misleading promotion, faulty and dangerous goods

The opportunities and problems of entering new markets abroad:

- Growth potential of new markets in other countries
- Problems of entering foreign markets, e.g. cultural differences and lack of knowledge
- Benefits and limitations of methods to overcome such problems, e.g. joint ventures

### **Chapter 17- Production of goods and services**

The meaning of production:

- Managing resources effectively to produce goods and services
- Difference between production and productivity
- Benefits of increasing efficiency and how to increase it, e.g. increasing productivity by automation and technology, improved labour skills
- Why businesses hold inventories (stocks)
- Concept of lean production; how to achieve it, e.g. just-in-time inventory control and Kaizen; benefits of lean production

The main methods of production:

- Features, benefits and limitations of job, batch and flow production
- Recommend and justify an appropriate production method for a given situation

How technology has changed production methods, e.g. using computers in manufacturing and design

### **Chapter 18- Costs, scale of production and break-even analysis**

Identify and classify costs:

- Classifying costs – fixed, variable, average, total; use examples to illustrate these
- Use cost data to help make simple cost-based decisions, e.g. to stop production or continue

Economies and diseconomies of scale:

- The concepts of economies and diseconomies of scale; examples of both

Explain, interpret and use a simple break-even chart:

- The concept of break even
- Construct, complete or amend a simple break-even chart
- Interpret a given chart and use it to analyse a situation
- Use a chart to help make simple decisions, e.g. impact of higher price
- Understand the limitations of break-even charts

## **Chapter 19- Achieving quality production**

Why quality is important and how quality production might be achieved:

- What quality means; why it is important for all businesses
- Concept of quality control and how businesses implement quality control
- The concept of quality assurance

## **Chapter 20- Location decisions**

The main factors influencing the location and relocation decisions of a business:

- Factors relevant to the location decision of manufacturing businesses and service businesses
- Factors that a business could consider when deciding which country to locate operations in
- The role of legal controls on location decisions
- Recommend and justify an appropriate location for a business in given circumstances

# **Commerce Syllabus**

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Text Book: O-Level Commerce: Mary Trigwell-Jones

## Chapter 28- Importance of communications in trade and the global market

- show understanding of the importance of communications in trade and the global market
- evaluate the need for rapid and accurate communication in trade and in the global market

## Chapter 29- Methods of communications, internal and external

- describe methods of communication, including: oral, written, telephonic, electronic (including: mobile phones, internet, intranet, email, teleconferencing, videoconferencing) and explain how each might be used in a given situation
- discuss factors affecting choice of method in given situations
- identify trends and developments in communication, including: computer hardware (tablets, smartphones, in-touch interfaces), use of social media, application stores (app stores) and importance of the mobile phone as a multi-functional tool

## Chapter 30- Postal services

- describe postal services

- explain in what circumstances different postal services might be used

#### Chapter 31- Transportation

- Importance of transportation in the chain of distribution.
- Characteristics of different methods: road, rail, air, sea, waterway, pipeline. Factors affecting choice of method. Modes of transport, e.g. passenger train, ferry, delivery van.
- Benefits to a business of having own transport.

#### Chapter 32- Containerization

- Main features; advantages.
- Reasons for increased use

#### Chapter 33- Trends in transport

- Modern developments and trends in the handling of goods and passengers, e.g. charter transport, growth of air freight, express road routes, changes in use of rail transport.

#### Chapter 34- Transport documents

- Delivery/consignment note; bill of lading, air waybill.
- Key information and purposes of each.

#### Chapter 35- International transport- Ports and airports

- Services offered at seaports and airports.