

Wordbridge School

Playgroup to A Level

Half Yearly Syllabus

Session: 2022-2023

Class-VII

Sl.	Subject	Syllabus
1.	Arithmetic	Book: Extended Mathematics for IGCSE: Chapter 1: Direct proportion and Inverse proportion (pg: 1-34). Chapter 2: Linear graphs and simultaneous linear equations (pg: 39-67). Chapter 3 Unitary Method (worksheets and handouts provided) Chapter 4: Fractional Exponents and Indices (worksheets and handout given)
2.	Algebra	Book: New Syllabus Mathematics Book 2 (7th edition): Chapter 3: Expansion and Factorization of Quadratic Expressions (Page 73-94): 3.1 Quadratic Expressions, 3.2 Expansions and Simplification of Quadratic Expressions. Ex 3A, 3.3 Factorization of Quadratic Expressions. Ex 3B, Review Exercise 3, Chapter 4: Further Expansion and Factorization of Algebraic Expressions (Page 95-116), 4.1 Expansions and Factorization of Algebraic Expressions. Ex 4A, 4.2 Expansion Using Special Algebraic Identities. Ex 4B, 4.3 Factorization Using Special Algebraic Identities. Ex 4C, 4.4 Factorization by Grouping. Ex 4D, Review Exercise 4. (Handout provided)
3.	Geometry	Book: New Syllabus Mathematics Book 2 (7th edition): Chapter 7: Congruence and Similarity (Page 163-203): 7.1 Congruent Figures. Ex 7A, 7.2 Similar Figures. Ex 7B, 7.3 Similarity, Enlargement and Scale Drawings. Ex 7C. Review Exercise 7, Chapter 8: Pythagoras' Theorem: (Page 209-116): 8.1 Pythagoras' Theorem. Ex 8A, 8.2 Applications of Pythagoras' Theorem in Real-World Contexts. Ex 8B, 8.3 Converse of Pythagoras' Theorem. Ex 8C, Review Exercise 8. (Handout provided)
4.	English Literature	A Magic Place Book-7: Engine Trouble (Pg.1), Secrets (Pg.24), The Singers (Pg.31), I Taught Myself To live Simply (Handout), The Trojan Horse (pg.), The Scarlet Pimpernel (Pg.87). The Tempest – William Shakespeare: Act 1 – Scene 1 & 2 (pg.20-67), Act 2 – Scene 1 & 2 (pg: 69-109)
5.	English Language	(Oxford Progressive English Book 7): Unit 1 – Elephants: Texts: News Report, Fiction, Non-fiction, Grammar: Verbs in passive, Adjectives, Past & Past Perfective. Unit 2- War and Peace: Text: Fiction, Non-fiction, Reading Comprehension Q/A, Grammar: Participles, Pre & Post modifiers, Direct & Indirect Speech, Creative Writing. Unit 3 – London: Texts: Fiction, Non-fiction, Reading Comprehension Q/A, Grammar: Structural kinds of Sentences, Different types of Adverbs, Present & Past Perfect tenses. Unit 4- Sugar and Spice: Text: Newspaper Article, Poetry, Reading, Comprehension Q/A. Grammar: Nonfinite Verbs: Gerund, Participles & Infinitive, Prepositions, Homophones, (Creative Writing): Letter & Essay.

6.	Bangla Literature	<p>বই : সপ্তবর্ণী সহপাঠ : গল্পগুচ্ছ গদ্য: লখার একুশে - আবুবকর সিদ্দিক (পৃ : ৯), বাংলাদেশের ক্ষুদ্র জাতিসত্তা -এ.কে.শেরাম (পৃ :৫৫), মরু ভাঙ্গুর - হাবিবুল্লাহ বাহার (পৃ : ১৪)। পদ্য : আমার বাড়ি - জসীম উদদীন (পৃ :৭১), সবার আমি ছাত্র -সুনির্মল বসু (পৃ : ৭৪)। সহপাঠ : ইচ্ছে পূরণ - রবীন্দ্রনাথ ঠাকুর (পৃ : ১৭৩)।</p>
7.	Bangla Language	<p>বই : ভাষা শিক্ষা (বাংলা ব্যাকরণ ও নির্মিত) : পদ পরিবর্তন, এককথায় প্রকাশ, বিপরীত শব্দ, সমোচ্চারিত শব্দ, লিঙ্গ পরিবর্তন, বাগধারা। অনুবাদ, অনুচ্ছেদ, চিঠি /ই-মেইল, সারাংশ /সারমর্ম, ভাব সম্প্রসারণ, রচনা (নির্ধারিত/অনির্ধারিত)।</p>
8.	Biology	<p>Book: Biology For Hier Tier (3rd Edition): Chapter -1: Introducing Living things: Units: 1.01: How life began pg 10, 1.02:Living things pg 12, 1.03: Living things and their needs pg 14, 1.04:Groups of living things Pg 16, 1.05: What are cells? Pg 18, 1.06: Cells, tissues and organs Pg20, 1.07: In and out of cells pg 22, 1.08:Cell division by Mitosis Pg 24, Chapter- 2: Green plants as organisms. Units: 3.01: What is a plant? pg 68, 3.02: Plant nutrition I pg70, 3.03: plant nutrition II pg72, 3.04:Leaves pg 74, 3.05: Transport and support in plants.pg 76, 3.06: Transpiration pg 78,3.07: Plant senses pg 80, 3.08: Plant hormones pg 82. Chapter4: Respiration, circulation, homeostasis and excretion. Units: 4.01: The amazing body machine I pg88, 4.02: Metabolism, enzymes and respiration.pg 90, 4.03:Aerobic and anaerobic respiration.pg 92, 4.04: Lungs and gas exchange pg 94,4.05: The Heart pg 96, 4.06: What makes blood flow.pg 98, 4.07: Heart Disease pg 100, 4.08: What blood is pg 102, 4.09: What blood does pg 109, 4.10:How oxygen and food reach cells pg 105.</p>
9.	Chemistry	<p>BOOK : Chemistry Made Clear (2019 Edition): States of matter, Chapter-1: Units-1.1-1.8: Diffusion and related experiments, Mixtures, solutions, suspensions & emulsions, Separation Techniques I, Filtration, centrifugation, evaporation. Separation Techniques II, Simple distillation, Fractional distillation, Chromatography. Chapter-2: Units: 2.1-2.6: Atomic Structure & isotopes, The Periodic Table, Group 01-Group 8 and Radioactivity.</p>
10.	Physics	<p>Book : New Physics for you: Chapter: Basic Idea:1 – How Science Works (pg: 6,7), 2 – Units (pg: 8,9), 3 – Energy (pg: 10-15), 4 – Molecules (pg: 16-20). Chapter: Heat: 5 – Expansion (pg: 21-25), 6 – Thermometers (pg: 26-28), 7 – The Gas Laws (pg: 29-34). Chapter: Mechanics: 11 – Pushes and Pulls (pg: 64-72), 12 – Density (pg: 74-76) 13 – Pressure (pg: 77-78), 16 – Work, Energy and Power (pg: 97-99),</p>
11.	History	<p>Book: Oxford History Project Book III Chapter 2: The age of machines: The Industrial Revolution, The Agricultural Revolution , The causes of the Industrial Revolution, Textiles and the Industrial Revolution , Transport and the Industrial Revolution , The effects of the Industrial Revolutions :1 & 2, Social changes in the Industrial Revolution , The world –wide effects of Industrialization . Chapter 3 :The age of revolutions (Only MCQ): The causes of the American Revolution, The American Revolution: independence, Napoleon Bonaparte, The Revolutionary and Napoleonic Wars, The causes of the French Revolution, The French Revolution.</p>

12.	Bangladesh Studies	Book: Discovering Bangladesh Book III (Part-I): Chapter 1: Bengal as the bridge head of the British empire (Only MCQ) Unit:1.1-Unit: 1.8 Chapter 6: The rise of All-out Bengali nationalism in the 1960s Unit: 6.1 & Unit: 6.2 Chapter 8: Main Characteristics of the constitution Unit:8.1 & Unit-8.2 Chapter 9: Three organs of government in Bangladesh Unit: 9.1-Unit: 9.4
13.	Geography	Book Name: Text Book: Voyage Geography for ICSE Middle School (updated edition) by Dorothy M. Noronha and Nelson Petrie: Chapters: 2. Population, 3. Migration, 4. Urbanization, 7. Asia- Location, Extent, Political and Physical Features.
14.	Computer Science	Book: Cambridge Terabytes Connect with Computers 7: Coding Worksheets and Handout. Chapter 1: Number System, pg-1: Binary number system, Decimal number system, Conversion of binary to decimal, and vice versa, Chapter 2: Calculations in Microsoft Excel 2010, pg-10: Formula, Functions, Error results. Coding Class, Algorithm & Flowchart, Pseudocode, Structure diagram (Class Notes provided)
15.	Religious Studies	Text Book: Islam and Moral Education (Class-seven): Chapter-1: Aqai'd- Lessons 1 , 2 , 3, 4 & 5 page: 1-12 Chapter-2: Ibadat- Lessons- Concept , Types and Benefits of Ibadat , Examples of Different types of Ibadat , Concept of Holiness & Unholiness , Examples of Holiness & Unholiness Chapter-3: Al Qur'an and Hadith Studies – Lesson 7 (Sura Al Qari'ah) page: 65
16.	Art	Topics: 15 th August, Fish aquarium, Dining table, Village house (Whole Bangladesh), Flood scenery, Rice grinding scenery, Flower garden.

* **Types of Questions:** Fill in the blanks, True/ False, Answer in one word, Short Questions, Broad Questions, Definitions, Diagrams, Draw, colour & label, Short notes, matching, Mental Maths, Solving sums by showing their workouts, Problem Solving.