



**BANGLADESH SCHOOL MUSCAT**  
**YEARLY SYLLABUS – AY (2024–25)**

**CLASS: VIII SCIENCE**

<b>SUBJECTS</b>
<b>BANGLA</b>
<b>ENGLISH (MODULAR)</b>
<b>MATHEMATICS (MODULAR)</b>
<b>HUMAN BIOLOGY</b>
<b>ICT</b>
<b>FURTHER PURE MATH</b>
<b>PHYSICS (MODULAR)</b>
<b>CHEMISTRY (MODULAR)</b>
<b>BIOLOGY (MODULAR)</b>

**CLASS: VIII (SCIENCE)**

**SUBJECT: BANGLA**

Name of the book	Term 1	Term 2	Term 3
বাংলা			
গদ্য	ক। প্রয়োজন বুঝে যোগাযোগ করি/অপারেশন কদমতলি খ। পাখি	ক। রেলের পথ খ। কোকিল	ক। ৭ই মার্চের ভাষণ খ। জেঁক/ মানসিংহ ও ঈসার্থা
পদ্য	ক। ছাড়পত্র খ। সাম্যবাদী	ক। পঞ্চশ্রম খ। জাগো তবে অরণ্য কন্যারা	ক। আশা খ। তোমরা যেখানে সাধ
আনন্দ পাঠ	কাবুলের শেষ প্রহর	কাকতাদুরা	হেমাপ্যাথি, এলোপ্যাথি
বাংলা ব্যাকরণ ও নিমিত্তি	ক। সমার্থক শব্দ প্রয়োগে বাক্য রচনা খ। বাঙ্কারা (idioms) গ। অনুবাদ (অনুচ্ছেদ) ঘ। পরিভাষা ঙ। প্রবন্ধ রচনা - বাংলা নববর্ষ, দৈনন্দিন জীবনে বিজ্ঞান চ। অনুচ্ছেদ - লাইব্রেরী ছ। বোধ পরীক্ষণ	ক। সাধু ও চলিত ভাষা রীতি খ। বাংলা বানান রীতি গ। অনুবাদ (অনুচ্ছেদ) ঘ। পরিভাষা ঙ। সমোচ্চারিত ভিন্নার্থক শব্দ প্রয়োগে বাক্য গঠন চ। ই - মেইল ছ। বোধ পরীক্ষণ জ। অনুচ্ছেদ রচনা	ক। বিপরীতার্থক শব্দ প্রয়োগে বাক্য গঠন খ। অনুচ্ছেদ রচনা গ। অনুবাদ (অনুচ্ছেদ) ঘ। পরিভাষা ঙ। বিরাম চিহ্ন চ। ছবি দেখে বিবরণ লিখি ছ। বোধ পরীক্ষণ
মান বণ্টন	<u>১ম সাময়িক</u> শ্রেণি মূল্যায়ন ২০ ১ম সাময়িক সমাপনী পরীক্ষা ৮০	<u>২য় সাময়িক</u> শ্রেণি মূল্যায়ন ২০ ২য় সাময়িক সমাপনী পরীক্ষা ৮০	<u>৩য় সাময়িক</u> শ্রেণি মূল্যায়ন ২০ ৩য় সাময়িক সমাপনী পরীক্ষা ৮০
	মোট ১০০	মোট ১০০	মোট ১০০

➤ Syllabus subject to change under unavoidable circumstances

**CLASS: VIII (SCIENCE)**

**SUBJECT: ENGLISH**

Name of the book	Term 1	Term 2	Term 3
<p><b>1. Anthology- Specification A (4EAO)</b></p> <p><b>2. Grammar</b></p> <p><b>Extended Writing</b></p>	<p><b>Chinese Cinderella</b> (Non-Fiction)  <b>An Unknown Girl</b> (Fiction)  <b>Out Out-</b> (Fiction)</p> <ul style="list-style-type: none"> <li>• Parts of speech (Advanced)</li> <li>• Phrase vs clause vs sentence</li> <li>• Sentence construction (Simple/ complex/compound)</li> </ul> <p>Writing to Argue, Persuade, Advise  <b>Transactional Writing</b>                      ( text of a speech/blog entry/news paper article/letters/magazine article/diary entry)</p>	<p><b>The Explorer’s Daughter</b> (Non-Fiction)  <b>From Beyond the Sky and the Earth: A Journey into Bhutan</b> (Non-Fiction)  <b>Disabled</b> (Fiction)</p> <ul style="list-style-type: none"> <li>• Subject Verb agreement</li> <li>• Use of modals and auxiliaries</li> <li>• Punctuations</li> </ul> <p>Writing to Entertain, Explore  <b>Transactional Writing</b>                      ( text of a speech/blog entry/news paper article/letters/magazine article/diary entry)</p>	<p><b>Explorers or boys messing about? Either way, taxpayers gets rescue bill</b> (Non-Fiction)  <b>A Game of Polo with a Headless Goat</b> (Non-Fiction)  <b>Still I Rise</b> (Fiction)</p> <ul style="list-style-type: none"> <li>• Use of reflexive pronouns</li> <li>• Direct and indirect speech</li> <li>• Punctuations</li> </ul> <p>Writing to Inform, Explain, Describe  <b>Transactional Writing</b>                      ( text of a speech/blog entry/news paper article/letters/magazine article/diary entry)</p>
<p><b>Distribution of Marks</b></p>	<p>Project work-                      Total Marks-5                      Formative Marks-20</p> <p>First Term Exam</p> <p><b>Paper 1 (2hrs.15min)</b>  <b>Section A</b>                      -Unseen Comprehension (11 marks)                      -Non Fiction(12 marks)</p>	<p>Project work-                      Total Marks-5</p> <p>Formative Marks-20                      Second Term Exam</p> <p><b>Paper 1 (2hrs.15min)</b>  <b>Section A</b>                      -Unseen Comprehension (11 marks)                      -Non Fiction(12 marks)</p>	<p>Project work-                      Total Marks-5</p> <p>Formative Marks-20                      Third Term Exam</p> <p><b>Paper 1 (2hrs.15min)</b>  <b>Section A</b>                      -Unseen Comprehension (11 marks)                      -Non Fiction(12 marks)</p>

	<p>- comparing question(22 marks)</p> <p><b>Section B-</b> Extended writing (35 marks)</p> <p><b>Section C-</b>Grammar (10 marks)</p> <p>Total Marks: 90 (60 percentage)</p> <p><b>Paper 2 (1hr)</b> Section A-Fiction(30 marks) Total Marks:30 (40 percentage)</p> <p>Total Percentage: 80</p>	<p>- comparing question(22 marks)</p> <p><b>Section B-</b> Extended writing (35 marks)</p> <p><b>Section C-</b>Grammar (10 marks)</p> <p>Total Marks: 90 (60 percentage)</p> <p><b>Paper 2 (1hr)</b> Section A-Fiction(30 marks) Total Marks:30 (40 percentage)</p> <p>Total Percentage: 80</p>	<p>- comparing question(22 marks)</p> <p><b>Section B-</b> Extended writing (35 marks)</p> <p><b>Section C-</b>Grammar (10 marks)</p> <p>Total Marks: 90 (60 percentage)</p> <p><b>Paper 2 (1hr)</b> Section A-Fiction (30 marks) Total Marks:30 (40 percentage)</p> <p>Total Percentage: 80</p>
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- **Syllabus subject to change under unavoidable circumstances**
- **50% Of the questions asked in the exams will be unseen, but similar to those done in class**

**CLASS: VIII (SCIENCE)**

**SUBJECT: MATHEMATICS**

Name of the book	Term 1	Term 2	Term 3
<p><b>1.EDEXCEL INTERNATIONAL GCSE(9-1) MATHEMATICS A Student Book 1</b></p>	<p><b>Topic- 1:</b> Number -1 &amp; 2 BIDMAS, significant figures, % changes.</p> <p><b>Topic -2:</b> Algebra- 1; Simplifying brackets.</p> <p><b>Topic -3:</b> Graph -1; Gradient of straight line. Ex:-1, 1*, Ex-2(Q;1, 2), Ex-2*(Q1)Ex-3(Q1),</p> <p><b>Topic – 4:</b> Shape and space -1; Triangles, Polygons (Ex: 1 to 3*), Similar triangles (Ex – 8, 8*.</p> <p><b>Topic-5:</b> Sets; set notation, Venn Diagrams.</p> <p><b>Topic - 6:</b> Algebra-2 Simplifying, solving equations, roots, powers, Inequalities. (Ex: 1 to 6*)</p> <p><b>Topic -7:</b> Graphs – 2; Straight line graphs.</p>	<p><b>Topic -1:</b> Number – 3 H.C.F / L.C.M / Prime Factors and Ratio.</p> <p><b>Topic – 2:</b> Shape and space - 2 Pythagoras theorem, Circle theorem.</p> <p><b>Topic – 3:</b> Algebra – 3: Factorising, Solving linear and simultaneous equations.</p> <p><b>Topic - 4:</b> Shape and space - 3; Tangent ratio.</p> <p><b>Topic-5:</b> Handling data - 2: Frequency tables.</p> <p><b>Revision: From Term -1: Algebra 2 Shape and space - 1, Sets</b></p>	<p><b>Topic-1:</b> Algebra - 4; Using formulae, Change of subjects.</p> <p><b>Topic – 2:</b> Graph – 4; Quadratic graphs.</p> <p><b>Topic - 3:</b> Shape and space- 4 Sine and Cosine ratios.</p> <p><b>Topic - 4:</b> Algebra – 5; Factorising and solving quadratic functions.</p> <p><b>Topic - 5:</b> Graph 5; Graphical Inequalities, Mid points, Using Pythagoras theorem.</p> <p><b>Topic – 6:</b> Handling Data - 4 Probability</p> <p><b>Revision: Shape and space -2, Algebra -3,</b></p>
<p><b>Distribution of Marks</b></p>	<p><b>Term End Examination: 200</b> (Paper 1HR - 80, 2HR - 80 marks Based on IGCSE specifications)</p> <p><b>Formative Assessment: 20%</b></p> <p><b>Total Marks: 200</b></p>	<p><b>Term End Examination: 200</b> (Paper 1HR -80, 2HR – 80 marks Based on IGCSE specifications)</p> <p><b>Formative Assessment: 20%</b></p> <p><b>Total Marks: 200</b></p>	<p><b>Term End Examination: 200</b> (Paper 1HR -80, 2HR- 80 marks Based on IGCSE specifications.)</p> <p><b>Formative Assessment: 20%</b></p> <p><b>Total Marks: 200</b></p>

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**CLASS: VIII (SCIENCE)**

**SUBJECT: HUMAN BIOLOGY**

Name of the book	Term 1	Term 2	Term 3
<p>1. Edexcel International GCSE Human Biology Student Book (9-1)</p> <p>IGCSE Biology Question Bank</p>	<p>Topic 1: Nutrition and Energy</p> <p>Topic 2: Cells (structure to the genetic code)</p> <p>Topic 3: Biological molecules</p> <p>Topic 4: Movement of substances into and out of cells-</p> <p>Practical: Testing for biological substances, Measuring BMI</p> <p>Activity: Types of teeth</p>	<p>Topic 1:Respiration and gas exchange</p> <p>Topic 2: Bones, muscles and joints</p> <p>Topic 3: Cells(mutation to stem cells)</p> <p>Topic 4: Cells and organelles (Revision)</p> <p>Practical: Measuring lung capacity</p> <p>Activity: Effects of smoking</p>	<p>Topic -1: Sensory receptors and the ear-The eye</p> <p>Topic 2: Coordination</p> <p>Topic 3: Microorganisms(till malaria)</p> <p>Topic4: Nutrition and energy (Revision)</p> <p>Practical: Investigating stereoscopic vision</p> <p>Activity: The parts of the brain</p>
<p>Distribution of marks</p>	<p>Formative Assessment :20</p> <p>First Term End Exam (IGCSE Pattern) :80</p> <p>Total marks:100</p>	<p>Formative Assessment :20</p> <p>Second Term End Exam (IGCSE Pattern) :80</p> <p>Total marks:100</p>	<p>Formative Assessment:20</p> <p>Third Term End Exam (IGCSE Pattern):80</p> <p>Total marks:100</p>

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**CLASS: VIII (SCIENCE)**

**SUBJECT: ICT**

Name of the book	Term 1	Term 2	Term 3
<p><b>Information and communication technology (9-1) – PETE BELL</b></p>	<p><b><u>UNIT 1 : DIGITAL DEVICES</u></b>  <b><u>Chp- 1 : Digital Devices</u></b></p> <p>Types of digital devices, Features of digital devices, Types of peripheral devices, Secondary storage .</p> <p><b><u>Chp - 2 : Software</u></b></p> <p>System software, Application software, Office productivity software.</p> <p><b><u>PRACTICAL</u></b></p> <p>MS-WORD, PAINT</p> <p>Revision Project</p>	<p><b><u>UNIT 1 : DIGITAL DEVICES</u></b>  <b><u>Chp-2 :Software</u></b> (continuation)</p> <p>Application Software-Software Licensing, Software updates .</p> <p><b><u>UNIT 2 : CONNECTIVITY</u></b></p> <p><b><u>Chp - 4 : Digital Communication</u></b></p> <p>Speed and volume of data transfer, Device to device communication, Network communication.</p> <p><b><u>PRACTICAL</u></b></p> <p>MS-EXCEL</p> <p>Revision Project</p>	<p><b><u>UNIT 1 : DIGITAL DEVICES</u></b></p> <p><b><u>Chp - 3 : Memory and Processors</u></b>  Memory , Processor,  Different types of memory.</p> <p><b><u>UNIT 2 : CONNECTIVITY</u></b></p> <p><b><u>Chp – 5 : Networks</u></b></p> <p>NOS, how devices are identified on a network, Components of wired and wireless systems, , Types of LAN .</p> <p><b><u>UNIT 3 : OPERATING ONLINE</u></b></p> <p><b><u>Chp – 6: Risks to data and Personal information</u></b>  Malware,Phishing,,Anti-virus,pharming</p> <p><b><u>PRACTICAL : WEB AUTHORIZING</u></b>  SOFTWARE, POWERPOINT</p>
<p><b>Distribution of Marks</b></p>	<p><b>Term End Examination :80</b>  <b>Formative Assessment :20</b></p> <p><b>Total Marks :100</b></p>	<p><b>Term End Examination :80</b>  <b>Formative Assessment :20</b></p> <p><b>Total Marks :100</b></p>	<p><b>Term End Examination :80</b>  <b>Formative Assessment :20</b></p> <p><b>Total Marks :100</b></p>

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**CLASS: VIII (SCIENCE)**

**SUBJECT: FURTHER PURE MATH**

<b>Name of the book</b>	<b>Term 1</b>	<b>Term 2</b>	<b>Term 3</b>
<b>IGCSE(9 - 1) Further Pure Mathematics: Ali Dato, Greg Aatwood. Student Book</b>	<b>Chapter 1:</b> Surds only. <b>Chapter 2:</b> Quadratic Function. Ex-1, 2 and 3. <b>Chapter 3:</b> Inequalities and Identities	<b>Chapter 5:</b> Arithmetic Sequence and Series. Ex: 1, 2 and 3.  <b>Revision:</b> <b>Chater 2:</b> Quadratic Function. <b>Chapter 3:</b> (Revision up to Ex. 3)	<b>Chapter 8:</b> Coordinate Geometry.  <b>Revision:</b> <b>First term topics: Chapter – 1: Surds Chapter 2: Quadratic function. Ex: 1, 2, 3.</b> <b>Second Term topic: Chapter 5: Arithmetic Sequence.</b>
<b>Types of questions and distribution of Marks</b>	<b>Formative assessment :20 marks Term End Exam: 80 marks Total: 100 marks</b>	<b>Formative assessment :20 marks Term End Exam: 80 marks Total: 100 marks</b>	<b>Formative assessment :20 marks Term End Exam: 80 marks Total: 100 marks</b>

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**CLASS: VIII (SCIENCE)**

**SUBJECT: PHYSICS**

Name of the book	Term 1	Term 2	Term 3
<p><b>EDEXCEL International GCSE(9-1) PHYSICS – Student Book</b>  <b>By-Brian Arnold, Penny Johnson, Steve Woolley</b></p>	<p><b>Topic 1: Units and Measurements</b>                      -use the following units: kg, m, m/s, m/s<sup>2</sup>, newton (N), second (s) and newton/kilogram (N/kg), newton metre (N m), kilogram metre/second (kg m/s).</p> <p><b>Topic 2: Movement and position</b>                      -Plot and explain distance–time graphs                      - Plot and explain velocity–time graphs. determine the acceleration and distance travelled from the graph                      -use the kinematic equations:  <math>a = (v-u)/t</math> and <math>v^2 = u^2 + 2 a s</math></p> <p><b>Topic 3: Forces, movement, shape</b>                      -Describe types forces and the effects of forces, describe scalars and vectors                      - Calculate the resultant force                      - Recognize and use Newton’s laws of motion to solve problems                      - stopping , thinking and braking</p>	<p><b>Topic 4: Properties of waves</b>                      - Longitudinal and transverse waves                      - Key words : amplitude, wave front, frequency, wavelength and period                      - use the equations ; <math>v = f \times \lambda</math> and <math>f = 1/T</math>                      wave behaviour: Doppler effect/                      Reflection and Refraction</p> <p><b>Topic 5 : electromagnetic spectrum</b>                      - Properties electromagnetic spectrum.                      -explain some of the uses and dangers of electromagnetic radiations.</p> <p><b>Topic 6 : Light and sound</b>                      -draw ray diagrams to illustrate behavior of light /use the relationship between refractive index, angle of incidence and angle of refraction./ describe the role of total internal reflection in transmitting information along optical fibers and in prisms./explain the meaning of critical angle.</p>	<p><b>Topic 7 : Solids, liquids and gases</b>                      Describe nature of gases and how gas pressure is generated                      -Understand the relationship between KE and temperature and absolute zero temperature                      - Recognize the Boyle’s law and Pressure law</p> $P_1 V_1 = P_2 V_2 \quad \frac{P_1}{T_1} = \frac{P_2}{T_2}$ <p><b>Topic 7 : Energy transfers</b>                      Recognize energy stores and energy transfer mechanisms                      -use the principle of conservation of energy                      - use ideas of efficiency and sanky diagrams                      - recognize the methods of heat transfer: conduction, convection and radiation</p>

	<p>distance</p> <ul style="list-style-type: none"> <li>- drag force and Terminal velocity</li> <li>-change in shape due to a force;</li> </ul> <p>Hooke's law</p> <ul style="list-style-type: none"> <li>- Turning effect of a force Principal of Moments</li> </ul>	<ul style="list-style-type: none"> <li>- properties of sound waves :-range for human hearing/how an oscilloscope and microphone can be used to display a sound wave/understand how the pitch and loudness of a sound relates to the frequency of vibration of the source</li> </ul>	<p>-explain the role of heat transfer in everyday phenomena.</p> <p><b>Topic 8 : Work and power</b></p> <ul style="list-style-type: none"> <li>- recognize the formula work done = force <math>\times</math> distance moved, <math>W = F \times d</math></li> <li>-know that work done is equal to energy transferred/ Use KE and GPE equations <math>KE = \frac{1}{2} m v^2</math> and <math>GPE = mgh</math></li> <li>Describe power as the rate of transfer of energy or the rate of doing work. <math>P = W/t</math></li> </ul>
Types of Questions and Distribution of Marks	<p><b><u>First Term end Exam</u></b></p> <p><b>Total Marks- 90 (IGCSE Pattern)</b></p> <p><b>Question- 100% from first term syllabus</b></p>	<p><b><u>Second Term end Exam</u></b></p> <p><b>Total Marks- 90 (IGCSE Pattern)</b></p> <p><b>Question- 40% from first term syllabus</b></p> <p><b>60% from second term syllabus</b></p>	<p><b><u>Third Term end Exam</u></b></p> <p><b>Total Marks- 90 (IGCSE Pattern)</b></p> <p><b>Question 25% from first term syllabus</b></p> <p><b>25% from second term syllabus</b></p> <p><b>50% from third term syllabus</b></p>

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**CLASS: VIII (SCIENCE)**

**SUBJECT: CHEMISTRY**

<b>Name of the book</b>	<b>Term 1</b>	<b>Term 2</b>	<b>Term 3</b>
<b>Edexcel International GCSE (9-1) Chemistry Student Book by Jim Clark, Steve Owen, Rachel Yu.</b>	<b>Topic 1 : States of matter</b>  <b>Topic 2 : Atomic structure</b>  <b>Topic 3 : The Periodic Table</b>  <b>Topic 4 :The alkali metals</b>	<b>Topic 1 :Ionic bonding</b>  <b>Topic 2 :Covalent bonding</b>  <b>Topic 3: Metallic bonding</b>  <b>Topic 4: Halogens</b>	<b>Topic 1 : Chemical formula equations &amp; calculation</b>  <b>Topic 2 : Crude oil</b>  <b>Topic 3: Introduction of organic chemistry</b>  <b>Topic 4 : Alkanes</b>  <b>Topic 5: Alkenes</b>
<b>Distribution of marks</b>	<b>Formative Assessment - 20</b> <b>First Term End Exam - 80</b>  (Questions as per IGCSE pattern)	<b>Formative Assessment - 20</b> <b>Second Term End Exam - 80</b>  (Questions as per IGCSE pattern)	<b>Formative Assessment - 20</b> <b>Third Term End Exam - 80</b>  (Questions as per IGCSE pattern)

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**CLASS: VIII (SCIENCE)**

**SUBJECT: BIOLOGY**

Name of the book	Term 1	Term 2	Term 3
1. Edexcel IGCSE Biology Student Book (9-1)  2. IGCSE Biology Revision Guide  3. IGCSE Biology Question Bank	Topic 1: Life processes  Topic 2: The variety of living Organisms  Topic 3: Plants and food  Topic 4: Chromosomes, genes, and DNA(except protein synthesis)  Topic 5: Cell division  <b>Practicals &amp; Activity</b>	Topic 1: Reproduction in plants  Topic 2: Blood and circulation  Topic 3: Selective breeding  Topic 4: Using microorganisms   <b>Practicals &amp; Activity</b>	Topic 1: Chemical co-ordination in Plants Topic 2: Ecosystems  Topic 3: Coordination  Topic 4: Chromosomes, genes, and DNA(revision)  Topic 5: Using microorganisms(revision)  <b>Practicals &amp; Activity</b>
Distribution of marks	Formative Assessment : 20 First Term End Exam (IGCSE Pattern) : 80  Total marks: 100	Formative Assessment : 20 Second Term End Exam (IGCSE Pattern) : 80  Total marks: 100	Formative Assessment : 20 Third-Term End Exam (IGCSE Pattern) : 80  Total marks: 100

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