

Pakistan International School, Aziziah- Jeddah  
Cambridge Curriculum Section (CCS)  
(Session 2023-2024)  
Grade X Syllabus breakup ( 1st Term)

Week No.	Starting Date	Ending Date	English	Math	Physics	Biology	Chemistry	Computer Science	Accounting	Business	Economics	PE	Library/ Art Crafts
1	Sunday, August 20, 2023	Thursday, August 24, 2023	<b>Unit 2:</b> You and Your Community, <b>A:</b> Home Town, <b>B:</b> Favourite places, <b>C:</b> Improving your neighbourhood,	<b>U4: Ch. 16:</b> Scatter Diagram and Correlation ( <b>Lesson 16.1</b> Introduction to bivariate data)	<b>Chap-13</b> Light - Reflection/refraction & dispersion <b>Topic 13.1:</b> Reflection of light <b>Topic 13.2 :</b> Refraction of light <b>Topic 13.3:</b> Total internal reflection	<b>Chap-8</b> Transport in plants <b>Topic:8.1</b> Xylem and phloem <b>Topic:8.2</b> Transport of water	<b>Chap-8</b> Rates of reaction <b>Topic 8.1</b> Factors affecting the rate of reaction <b>Topic 8.2</b> Collision theory of reaction rate	<b>Unit 9:Databases</b> Topics and Activities: <i>*Installation of SQL database Introduction</i> 9.1.1 Single-table databases Activity 9.1 9.1.2 Basic data types Unit 9:Databases Validation Activity 9.2	Chp 8: Financial Statements-Part A <b>Topic 8.1:</b> Introduction <b>Topic 8.2:</b> Trading section of the income statement <b>Topic 8.3:</b> Profit and loss section of the income statement <b>Topic 8.4:</b> Transferring ledger accounts total to the income statement <b>Topic 8.5:</b> Income statement of a service business <b>Exam Style Questions</b>	<b>Unit 20:</b> Cash flow forecasting and working capital - The importance of cash and cash flow forecasting, book activities and exam style questions.	<b>Unit 26:</b> Fiscal Policy - government budget, government spending, classification of taxes, principles and impact of taxation and fiscal policy.	Physical Education/ library visit	<u>Pointilism</u> <u>Scenery</u>
2	Sunday, August 27, 2023	Thursday, August 31, 2023	<b>Mid Stage Assessments</b> <b>Unit 2:</b> You and Your Community, <b>D:</b> Making a difference, <b>E:</b> Welcoming an exchange visitor, <b>Test of Unit 2, Exercise of Exam Style questions</b>	<b>Mid Stage Assessments</b> <b>U5: Ch. 17:</b> Managing Money ( <b>Lesson 17.1</b> Earning Money)	<b>Mid Stage Assessments</b> <b>Chap-13</b> Light <b>Topic 13.4:</b> Lenses <b>Topic 13.5:</b> Dispersion of light	<b>Mid Stage Assessments</b> <b>Chap-8</b> Transport in plants <b>Topic: 8.2</b> Transport of water <b>Topic:8.3</b> Translocation of sucrose and amino acids	<b>Mid Stage Assessments</b> <b>Chap-8</b> Rates of reaction <b>Topic 8.2</b> Collision theory of reaction rate <b>Chap-10</b> Redox reactions <b>Topic 10.1</b> Combustion, oxidation and reduction	<b>Mid Stage Assessments</b> <b>Unit 9:Databases</b> Topics and Activities: 9.1.3 Primary keys Activity 9.3 Activity 9.4 9.1.4 SQL SQL scripts Activity 9.5 Activity 9.6 Activity 9.7 Activity 9.8	<b>Mid Stage Assessments</b> Chp 9: Financial Statements- Part B <b>Topic 9.1:</b> Introduction <b>Topic 9.2:</b> Assets <b>Topic 9.3:</b> Liabilities <b>Exam Style Questions</b>	<b>Mid Stage Assessments</b> <b>Unit 21:</b> Income statements - Profit, book activities, exam style questions	<b>Mid Stage Assessments</b> <b>Unit 27-</b> Monetary policy - money supply, monetary policy, measures and effects of monetary policy on macroeconomics aims.	Book swapping Activity	Library
3	Sunday, September 03, 2023	Thursday, September 07, 2023	<b>Unit 3:</b> Sports, fitness, and health <b>A:</b> Is sports always fun? <b>B:</b> Enjoying sport safely.	<b>U5: Ch. 17:</b> Managing Money Lessons: <b>17.2</b> Borrowing and investing money <b>17.3</b> Buying and selling	<b>Chap-14</b> Properties of wave <b>Topic 14.1:</b> Describing waves <b>Topic 14.2:</b> Speed, frequency and wavelength <b>Topic 14.3:</b> Explaining wave phenomena	<b>Chap-7</b> Human Nutrition <b>Topic 7.1</b> Diet <b>Topic 7.2</b> The human digestive system	<b>Chap-10</b> Redox reactions <b>Topic 10.1</b> Combustion, oxidation and reduction <b>Topic 10.2</b> Redox reactions	<b>Unit 10:Boolean Logic</b> Topics and Activities: 10.1 Standard logic gate symbols 10.1.1 Logic gate symbols Truth tables 10.2 The function of the six logic gates 10.2.1 NOT gate 10.2.2 AND gate 10.2.3 OR gate Example 1,2,3	Chp 20: Manufacturing Accounts <b>Topic 20.1:</b> Introduction <b>Topic 20.2:</b> The element of cost <b>Topic 20.3:</b> Preparation of a manufacturing account <b>Topic 20.4:</b> Work in Progress <b>Topic 20.5:</b> Calculation of unit cost	<b>Unit 22:</b> Statement of financial position - main parts of financial position, book activities and exam style questions.	<b>Unit 28:</b> Supply side policy - policies, measures and effect of policy on macroeconomic aims.	Trending games	Realistic tree with water colour

4	Sunday, September 10, 2023	Thursday, September 14, 2023	<p><b>Unit 3:</b> Sports, fitness, and health, <b>C:</b>Motivation through sport, <b>D:</b>Health, diet and fitness, <b>Exercise of Exam Style questions</b></p>	<p><b>U5: Ch. 18:</b> Curved Graphs Lessons : <b>18.1</b> Drawing quadratic graphs: the parabola <b>18.2</b> Drawing reciprocal graphs <b>18.3</b> Using graphs to solve quadratic equations</p>	<p><b>Chap-15 :</b> The electromagnetic spectrum <b>Topic 15.1:</b> Electromagnetic waves <b>Topic 15.2 :</b> Electromagnetic hazards <b>Topic 15.3:</b> Communicating using electromagnetic waves</p>	<p><b>Chap-7</b> Human Nutrition <b>Topic: 7.3</b> Digestion <b>Topic: 7.4</b> Absorption and assimilation</p>	<p><b>Chap-6</b> Electrochemistry <b>Topic 6.1</b> Types of electrical conductivity <b>Topic 6.2</b> Products of electrolysis</p>	<p><b>Unit10: Boolean Logic</b> Topics and Activities: 10.2.4 NAND gate (NOT AND) 10.2.5 NOR gate (NOT OR) 10.2.6 XOR gate Activity 10.1 10.3 logic gates to create logic circuits Part 1 Part 2 Part 3 Activity 10.2 Example 4,5</p>	<p><b>Chp 20:</b> Manufacturing Accounts <b>Topic 20.6:</b> Preparation of trading section of income statement of a manufacturing business <b>Topic 20.7:</b> Preparation of a profit and loss section of a manufacturing business <b>Topic 20.8:</b> Preparation of a statement of financial position of a manufacturing business <b>Topic 20.9:</b> Year-end adjustments Exam Style Questions</p>	<p><b>Unit 23:</b> Analysis of Accounts - interpretation of financial statements, , why and how accounts are used, book activities and exam style questions. PII exam style case study on book page 296</p>	<p><b>Unit 29:</b> Economic Growth - measurement of economic growth, causes and consequences of recession, causes and consequences of economic growth, policies to promote economic growth.</p>	Throw ball	library
5	Sunday, September 17, 2023	Thursday, September 21, 2023	<p><b>Unit 4:</b> Our impact on the planet, <b>A:</b> Transport then and now, <b>B:</b> Nature under threat</p>	<p><b>U5: Ch. 18:</b> Curved Graphs (<b>Lessons 18.4</b> Using graphs to solve simultaneous linear and non linear equations - <b>18.5</b> Other non linear graphs - <b>18.6</b> Finding the gradient of a curve <b>18.7</b> Derived functions</p>	<p><b>Chap 16</b> Magnetism <b>Topic 16.1:</b> Permanent magnets <b>Topic 16.2 :</b> Magnetic fields</p>	<p><b>Chap-9</b> Transport in animals <b>Topic: 9.1</b> Circulatory system <b>Topic: 9.2</b> the heart</p>		<p><b>Unit10: Boolean Logic</b> Topics and Activities: Activity 10.3 Example 6,7,8 Activity 10.4</p>	<p>Chp 15: Journal entries and correction of errors <b>Topic 15.1:</b> Introduction <b>Topic 15.2:</b> Opening journal entries <b>Topic 15.3:</b> Purchase and sale of non current assets <b>Topic 15.4:</b> Non regular transactions <b>Topic 15.5:</b> Correction of errors <b>Topic 15.6:</b> Effect on profit by correcting errors <b>Topic 15.7:</b> Effect on statement of financial position by correcting errors</p>	<p><b>Unit 24:</b> Economic Issues - how government control over economy, book activities and exam style questions.</p>	<p><b>Unit 30:</b> Employment and unemployment - changing patterns and levels of employment, measuring unemployment, causes, types and consequences of unemployment and policies to reduce unemployment</p>	Cricket	Still Life painting___
6	Monday, September 25, 2023	Thursday, September 28, 2023	<p><b>Unit 4:</b> Our impact on the planet, <b>C:</b> A new motoway for Rosville? <b>D:</b>Global warming, <b>Exercise of Exam Style questions</b></p>	<p><b>U5: Ch. 19:</b> Symmetry Lessons <b>19.1</b> Symmetry in two dimensions <b>19.2</b> Symmetry in three dimensions)</p>	<p><b>Chap-17</b> Static electricity <b>Topic 17.1 :</b> Charging and discharging <b>Topic 17.2 :</b> Explaining static electricity <b>Topic 17.3:</b> Electric fields</p>	<p><b>Chap-9</b> Transport in animals <b>Topic: 9.3</b> blood vessels <b>Topic: 9.4</b> blood</p>	<p><b>Chap-6</b> Electrochemistry <b>Topic 6.2</b> Products of electrolysis <b>Topic 6.3</b> Hydrogen as a fuel</p>	<p><b>Unit2:Data Transmission</b> Topics and Activities: 2.1 types and Methods of data transmission 2.1.1 Data packets Activity 2.1</p>	<p>Chp 15: Journal entries and correction of errors <b>Walkthroughs Exam style questions and pst paper practise</b></p>	<p><b>Unit 25:</b> Environmental and International issues - concerns and ethical issues, book activities and exam style questions</p>	<p><b>Unit 31:</b> Inflation and deflation - measuring inflation and deflation, calculating the CPI, causes and consequences of inflation and deflation, policies to control inflation and deflation</p>	Basketball	library

7	Sunday, October 01, 2023	Thursday, October 05, 2023	<p><b>Unit5:</b> Entertainment, <b>A:</b> Talking about entertainment, <b>B:</b> Recommendations and Reviews, <b>C:</b> Working in film industry or theatre.</p>	<p><b>U5: Ch. 19:</b> Symmetry Lessons : <b>19.3</b> Symmetry properties of circles <b>19.4</b> Angle relationships in circles)</p>	<p><b>Chap-18</b> Electrical quantities <b>Topic 18.1 :</b> current in electric circuits <b>Topic 18.2:</b> Voltage in electric circuit <b>Topic 18.3:</b> Electrical resistance <b>Topic 18.4:</b> More about electrical resistance <b>Topic 18.5 :</b> Electrical energy ,work &amp; power</p>	<p><b>Chap-10</b> Diseases and immunity <b>Topic: 10.1</b> Transmission of pathogens</p>	<p><b>Chap-7</b> Chemical energetics <b>Topic 7.1</b> Physical and chemical changes <b>Topic 7.2</b> Exothermic and endothermic reactions</p>	<p><b>Unit2:Data Transmission</b> Topics and Activities: 2.1.2 Data transmission Simplex, half-duplex and full-duplex Activity 2.2 Comparison of serial and parallel data transmission methods</p>	<p>Chp 17: Incomplete records <b>Topic 17.1:</b> Introduction <b>Topic 17.2:</b> Advantages of maintaining double entry records <b>Topic 17.3:</b> Statement of affairs</p>	<p><b>Unit 26:</b> Business and International Economy - globalisation, multinational companies, exchange rates, book activities and exam style questions.</p>	<p>Past papers practice on section 4</p>	<p><a href="#">6minutes Challenge</a></p>	<p><a href="#">Still Life painting</a></p>
8	Sunday, October 08, 2023	Thursday, October 12, 2023	<p><b>Unit5:</b> Entertainment, <b>D:</b>Reading for pleasure, <b>E:</b> Book and Film Reviews, <b>Exercise of Exam Style questions</b></p>	<p><b>U5: Ch. 20:</b> Histograms &amp;Frequency Distribution Diagrams <b>Lessons:</b> <b>20.1</b> Histograms <b>20.2</b> Cumulative frequency</p>	<p><b>Chap-19</b> Electrical circuits <b>Topic 19.1:</b> Circuit components <b>Topic 19.2:</b> Combinations of resistors <b>Topic 19.3:</b>Electrical safety</p>	<p><b>Chap-10</b> Diseases and immunity <b>Topic: 10.2</b> The immune response</p>	<p><b>Chap-7</b> Chemical energetics <b>Topic 7.2</b> Exothermic and endothermic reactions</p>	<p><b>Unit2:Data Transmission</b> Topics and Activities: 2.1.3 Universal serial bus (USB) Activity 2.3 2.2 Methods of error detection 2.2.1 The need to check for errors 2.2.2 Parity checks, checksum and echo checks</p>	<p>Chp 17: Incomplete records <b>Walkthroughs, exam style questions and past paper practise</b></p>	<p>Exam style PII case study on book page 340. past papers practice</p>	<p><b>Unit 32:</b> Living standards - indicators of living standards, comparing living standards and income distribution.</p>	<p><a href="#">Orienteering</a></p>	<p>library</p>
9	Sunday, October 15, 2023	Thursday, October 19, 2023	<p><b>Unit 6:</b> Travel and the outdoor life, <b>A:</b> Holiday Time, <b>B:</b> Outdoor Activities</p>	<p><b>U6: Ch. 21:</b> Ration, Rate &amp; Proportion Lessons: <b>21.1</b> Working with ratio <b>21.2</b> Ratio and scale <b>21.3</b> Rates</p>	<p><b>Chap-20</b> Electromagnetic spectrum <b>Topic 20.1:</b> The magnetic effects of a current <b>Topic 20.2:</b> Force on a current carrying conductor <b>Topic 20.3:</b> Electric motors <b>Topic 20.4 :</b> Beams of charged particles &amp; magnetic fields</p>	<p><b>Chap-12</b> Coordination and response <b>Topic: 12.1</b> the human nervous <b>Topic 12.2</b> sense organs</p>	<p><b>Chap-9</b> Reversible reactions and equilibrium <b>Topic 9.1</b> Reversible reactions</p>	<p><b>Unit2:Data Transmission</b> Topics and Activities: Activity 2.4 Activity 2.5 Example 1 Activity 2.6 Checksum Echo check</p>	<p>Chp 21: Limited Companies <b>Topic 21.3:</b> Share Capital <b>Topic 21.4:</b> Types of Shares <b>Topic 21.5:</b> Debentures <b>Topic 21.6:</b> Income Statement of a Limited liability company <b>Topic 21.7:</b> Statement of Changes in Equity <b>Topic 21.8:</b> Statement of financial position of a limited company Exam Style Questions</p>	<p>Past papers practice</p>	<p><b>Unit 33:</b> Poverty - poverty, causes of poverty and policies to alleviate poverty.</p>	<p>Math Station</p>	<p>Recreating a watercolour painting of master</p>

10	Sunday, October 22, 2023	Thursday, October 26, 2023	Unit 6: Travel and the outdoor life, C: Tourism: The Pros and Cons, D: Personal Challenges, Exercise of Exam Style questions	U6: Ch. 21: Ration, Rate & Proportion Lessons: 21.4 Kinematic Graphs 21.5 Proportion 21.6 Direct and inverse proportions in algebraic terms 21.7 Increasing and decreasing amounts by a given ratio	Chap-21 Electromagnetic induction Topic 21.1: Generating electricity Topic 21.2: Power lines & transformers Topic 21.3: How transformers work	Chap-12 Coordination and response Topic: 12.3 hormones Topic: 12.4 coordination implants	Chap-9 Reversible reactions and equilibrium Topic 9.2 Haber process and Contact process Topic 9.3 Fertilizers	Unit2: Data Transmission Topics and Activities: Example 1: ISBN 13 Example 2: Modulo-11 Activity 2.7 2.2.4 Automatic Repeat Requests (ARQs) 2.3 Symmetric and asymmetric encryption 2.3.2 Symmetric and asymmetric encryption Activity 2.8 Activity 2.9	Chp 22: Analysis and Interpretation Topic 22.1: Introduction Topic 22.2: Profitability ratios Topic 22.3: Liquidity ratios Topic 22.4: Inter-firm comparison Topic 22.6: Users of accounting statements Topic 22.7: Limitations of accounting statements Exam Style Questions	Past papers practice	Unit 34: Population - factors effecting population growth, reasons for different rates of population, effect of changes in the size and structure of population.	Really Race practice	library
11	Sunday, October 29, 2023	Thursday, November 02, 2023	Unit 7: Student Life, A: Challenges of Student Life, B: The pressure of Exams	U6: Ch. 22: More Equations, Formulae & Functions Lessons: 22.1 Setting up equations to solve problems 22.2 Using and transforming formulae	Chap-22 The nuclear atom Topic 22.1: Atomic structure Topic 22.2: Protons, neutrons & electrons	Chap-13 Excretion and homeostasis Topic: 13.1 Excretion	Chap-9 Reversible reactions and equilibrium Topic 9.3 Fertilizers	Unit3: Hardware Topics and Activities: 3.1 computer architecture 3.1.1 The central processing unit (CPU) 3.1.2 Von Neumann Architecture	Chp 16: Control accounts Topic 16.1: Introduction Topic: 16.2: Advantages of Control accounts Topic 16.3: Sales ledger control account Topic 16.4: Purchase ledger control account	Past papers practice	Unit 35: Differences in economic development between countries - economic development and all related sub topics	Rebounding the ball	Creating a watercolour painting of master
12	Sunday, November 05, 2023	Thursday, November 09, 2023	Unit 7: Student Life, C: Studying Effectively, D: A range of advice, Exercise of Exam Style questions	U6: Ch. 22: More Equations, Formulae & Functions Lessons 22.2 Using and transforming formulae 22.3 Function and function notation	Chap-23 Radioactivity Topic 23.1: Radioactivity all around us Topic 23.2: Radioactive decay	Chap-13 Excretion and homeostasis Topic: 13.2 Homeostasis	Chap-11 Acids and bases Topic 11.1 The nature of acids and bases Topic 11.2 Characteristic reactions of acids	Unit3: Hardware Topics and Activities: Activity 3.1 3.1.4 Instruction set 3.1.5 Embedded systems Activity 3.2	Chp 16: Control accounts Topic 16.5: Balance on both sides of a control account Topic 16.6: Contra entries in control accounts Exam style questions	Past papers practice	Past papers practice on section 5	Badminton Practice	library
13	Sunday, November 12, 2023	Thursday, November 16, 2023	Unit 8: The search of adventure, A: The call of the Sea, B: Adrift on the Pacific,	U6: Ch. 23: Vectors and Transformations Lessons : 23.1 Simple plane transformations 23.2 Vectors	Chap-23 Radioactivity Topic: 23.3: Activity & half-life Topic 23.4 : Using Radioisotopes	Chap-14 Reproduction in plants Topic: 14.1 is action and sexual reproduction Topic: 14.2 sexual reproduction in flowering plants	Chap-11 Acids and bases Topic 11.2 Characteristic reactions of acids  Chap-12 Preparation of salts Topic 12.1 The importance of salts – an introduction	Unit3: Hardware Topics and Activities: 3.2 Input and output devices 3.2.1 Input devices Activity 3.3 Digital cameras Keyboards Microphones	Chp 19: Partnerships Topic 19.1: Introduction Topic 19.2: The advantages and disadvantages of partnership business Topic 19.3: Partnership agreement Topic 19.4: Loans from partners	Past papers practice	Unit 36: International specialisation - specialisation at national level, advantages and disadvantages of specialization.	Target the longest Distance	Paint a landscape painting of your choice from a photograph <a href="https://www.youtube.com/watch?v=BDA7cmuxhCY&amp;ab_channel=PSArtGallery">https://www.youtube.com/watch?v=BDA7cmuxhCY&amp;ab_channel=PSArtGallery</a>

14	Sunday, November 19, 2023	Thursday, November 23, 2023	Unit 8: The search of adventure, C: A remarkable rescue, D: Reacting to the unexpected, <b>Exercise of Exam Style questions</b>	U6: Ch. 23: Vectors and Transformations (Lessons 23.2 Vectors - 23.3 Further transformations)	Chap-24 Earth & solar system <b>Topic 24.1</b> : Earth, Sun & Moon <b>Topic 24.2</b> : The solar system	Chap-14 Reproduction in plants <b>Topic: 14.2</b> sexual reproduction in flowering plants <b>Topic: 14.3</b> advantages and disadvantages of different methods of reproduction	Chap-12 Preparation of <b>Topic 12.2</b> Preparation	Unit3:Hardware Topics and Activities: 3.2.1 Input devices Optical mouse 2D and 3D scanners Touch screens	Chp 19: Partnerships <b>Topic 19.5</b> : Preparation of profit and loss appropriation account of a partnership business <b>Topic 19.6</b> : Partners ledger accounts <b>Topic 19.7</b> : Preparation of a statement of financial position of a partnership business <b>Exam style questions</b>	Past papers practice	Unit 37: Globalisation, free trade and protection - globalization, role of multinational companies, costs and benefits of MNCs, benefits of free trade and protection	Ultimate sponge ball	library
15	Sunday, November 26, 2023	Thursday, November 30, 2023	Unit 9: Animals and Our World, A: A Fresh look at zoos, B: Animal experimentation	U6: Ch. 24: Probability Using Tree Diagrams & Venn Diagrams <b>Lessons:</b> <b>24.1</b> Using tree diagrams to show outcomes <b>24.2</b> Calculating probability from tree diagrams	Chap-25 Stars and Universe <b>Topic 25.1</b> : The Sun <b>Topic 25.2</b> Stars and galaxies <b>Topic 25.3</b> : The universe	Chap-15 Reproduction in humans <b>Topic: 15.1</b> The human reproductive systems	Chap-17 Chemistry of our environment <b>Topic 17.1</b> Air quality <b>Topic 17.2</b> Carbon dioxide, methane and climate change	Unit3:Hardware Topics and Activities: 3.2.2 Output devices Actuators Light projectors Digital light projectors (DLP) Advantages and disadvantages of DLP and LCD projectors Inkjet and laser printers Laser printers 3D printers LED and LCD screens Organic light emitting diodes (OLED) Advantages of using OLED compared to existing LEDs and LCDs (Loud) speakers	Chp 18: Accounts of clubs and societies <b>Topic 18.1</b> : Introduction <b>Topic 18.2</b> : Preparation of a receipts and payments account <b>Topic 18.3</b> : Preparation of income statement of a club or society <b>Topic 18.4</b> : Preparation of an income and expenditure account	Past papers practice	Unit 38: Foreign exchange rates - determinants of exchange rate, floating and fixed exchange rates, causes and consequences of exchange rate fluctuations.	Cricket Match	Paint a landscape painting of your choice from a photograph

