



# Pakistan International School Jeddah – English Section

Academic Year 2026-27

## Syllabus Outline – For Admission in Y10

(Minimum Age 14.8, Maximum Age 15.7 years on 1<sup>st</sup> September, 2026)

Subject	Syllabus
<b>Mathematics</b>	<p><b>Numbers</b></p> <ul style="list-style-type: none"> <li>▪ Arithmetic (Decimals, Fractions, both)</li> <li>▪ Number Facts (Rational and Irrational Nos.)</li> <li>▪ Sequences</li> <li>▪ Measurements and Bounds</li> <li>▪ Standard Form</li> <li>▪ Ratio and Proportion</li> <li>▪ Foreign Exchange</li> <li>▪ Percentages (% age Increase &amp; Decrease)</li> <li>▪ Interest (Simple, Compound)</li> <li>▪ Speed, Distance and Time</li> </ul> <p><b>Algebra</b></p> <ul style="list-style-type: none"> <li>▪ Directed Numbers</li> <li>▪ Formula Making and Formulas</li> <li>▪ Brackets and Simplifying</li> <li>▪ Linear Equations</li> <li>▪ Problems Solved by Linear Equations</li> <li>▪ Simultaneous Equations (Substitution, Elimination)</li> <li>▪ Problems Solved by Simultaneous Equations</li> <li>▪ Factorization</li> <li>▪ Quadratic Equations and Problems Solved by Quadratic Equations</li> <li>▪ Completing Squares and Solving Equations by Completing Squares</li> </ul> <p><b>Mensuration</b></p> <ul style="list-style-type: none"> <li>▪ Areas of Rectangle, Trapezium, Kite, Parallelogram, Triangle, Circle</li> <li>▪ Regular Polygons</li> <li>▪ Arc Length and Sector Area</li> <li>▪ Chord of a Circle</li> <li>▪ Finding Shaded Areas</li> <li>▪ Volumes of Prisms, Pyramid, Cone, Sphere, Hemisphere</li> <li>▪ Surface Areas of Three -D Shapes (Cylinders, Sphere, Cone, Boxes)</li> </ul> <p><b>Geometry</b></p> <ul style="list-style-type: none"> <li>▪ Fundamental Results</li> <li>▪ Polygons (Interior and Exterior Angles and No. of Sides)</li> <li>▪ Parallel Lines (Alternate, Corresponding, Allied, Vertically Opposite)</li> <li>▪ Pythagoras' Theorem</li> <li>▪ Similarity (Similar Shapes, Areas of Similar Shapes, Volumes of Similar Shapes).</li> </ul>

<h1>Physics</h1>	<p><b><u>Motion, Forces and Energy</u></b></p> <ol style="list-style-type: none"> <li>1.1) Physical Quantities and measurement techniques</li> <li>1.2) Motion</li> <li>1.3) Mass and Weight</li> <li>1.4) Density</li> <li>1.5) Forces</li> <li>1.6) Momentum</li> <li>1.7) Energy, Work and Power</li> <li>1.8) Pressure</li> </ol> <p><i>Ref: Cambridge IGCSE Physics 0625 syllabus for 2023, 2024 and 2025</i></p>
<h1>Chemistry</h1>	<p>Unit 1: States of Matter  Unit 2: Elements, Compounds and Mixtures  Unit 3: Atomic Structure  Unit 4: Ionic, Covalent &amp; Metallic Bonding  Unit 5: Chemical Formulae and Equations  Unit 6: 6.1 Relative Molecular Mass  Unit 12: Acids, Bases and Salts  Unit 13: Periodic Table  Unit: 20: Experimental Techniques and Chemical Analysis</p> <p><i>Resources: Cambridge IGCSE Chemistry-Marshall Cavendish  0620 syllabus 2023-2025</i></p>
<h1>Biology</h1>	<p>Chapter 1: Characteristics and classification of living organisms  Chapter 2: Cells  Chapter 3 Movement into and out of cells  Chapter 4: Biological molecules  Chapter 5: Enzymes  Chapter 6: Plant nutrition  Chapter 7: Human nutrition  Chapter 8: Transport in plants  Chapter 19: Human influences on ecosystems</p> <p><b>Reference:</b></p> <ul style="list-style-type: none"> <li>• <i>Cambridge IGCSE Biology 0610- Syllabus for Exams in 2023, 2024 and 2025.</i></li> <li>• <i>Coursebook: Cambridge IGCSE Biology 4th Edition by Mary Jones, Geoff Jones</i></li> </ul>

<h1>Economics</h1>	<p><b>Section 1: Basic Economic Problem</b>  Chapter 1; The Nature of the Economic Problem  Chapter 2; Factors of production and Opportunity cost  Chapter 3; Opportunity cost.  Chapter 4; Production Possibility Curve (PPF)</p> <p><b>Section 2: The allocation of resources.</b>  Chapter 5: Microeconomics and Macroeconomics  Chapter 6: The role of market in allocating resources.  Chapter 7: Demand  Chapter 8: Supply  Chapter 9: Price determination  Chapter 10: Price changes.  Chapter 11: Price elasticity of demand.  Chapter 12: Price elasticity of supply  Chapter 13: Market Economic System  Chapter 14: Market Failure.  Chapter 15: Mixed economic system</p> <p>Text Book: Cambridge IGCSE Economics by Paul Hoang (2<sup>nd</sup> Edition)</p>
<h1>Business Studies</h1>	<p><b>Section 1: Understanding Business Activity</b></p> <ul style="list-style-type: none"> <li>▪ Chapter 1: Business Activity</li> <li>▪ Chapter 2: Classification of Business</li> <li>▪ Chapter 3: Enterprise, Business growth and Size</li> <li>▪ Chapter 4: Types of Business Organization</li> <li>▪ Chapter 5: Business objectives and Stakeholders objectives.</li> </ul> <p><b>Section 2: People in Business</b></p> <ul style="list-style-type: none"> <li>▪ Chapter 6: Motivating Employees</li> <li>▪ Chapter 7: Organization and Management</li> <li>▪ Chapter 8: Recruitment, selection and training employees</li> <li>▪ Chapter 9: Business Communication</li> </ul> <p><b>Ref: Cambridge IGCSE and O Level Business Studies Coursebook – Revised Third Edition</b>  <i>By: Mark Fisher, Medi Houghton and Veenu Jain</i></p>
<h1>Accounting</h1>	<p>Chapter 1 : Introduction to Accounting  Chapter 2 : Double Entry Book-keeping Part A  Chapter 3 : The Trial Balance  Chapter 4 : Double Entry Book-keeping Part B  Chapter 5 : Petty Cash Book  Chapter 6; Business Documents  Chapter 7 : Books of Prime Entry  Chapter 8 : Financial Statements Part A (Income Statement)  Chapter 9 : Financial Statements Part B (Statement of financial position)</p>

<p style="text-align: center;"><b>Computer Science</b></p>	<p>Chapter 1: Data representation  Chapter 2: Data transmission  Chapter 7: Algorithm design and problem-solving  Chapter 8: Programming</p> <p>Syllabus: IGCSE Computer Science - 0478  Ref: Cambridge IGCSE and O Level Computer Science Second Edition by David Watson, Helen Williams</p>
<p style="text-align: center;"><b>ICT</b></p>	<p>Chapter 4: Networks and the effects of using them  Chapter 7: The systems life cycle  Chapter 18: Databases  Chapter 19: Presentations  Chapter 20: Spreadsheets</p> <p>Syllabus: 0417-Information and Communication Technology  Ref: Cambridge IGCSE ICT Student's Book Third Edition by Hodder education</p>