



Pakistan International School Jeddah – English Section

Academic Year 2024-25

Syllabus Outline – For Admission in Y10

(Minimum Age 15 , Maximum Age 15.11 years on 1st September, 2024)

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

<p style="text-align: center; font-size: 2em;">Physics</p>	<p><u>Motion, Forces and Energy</u></p> <ul style="list-style-type: none"> • Physical Quantities and measurement techniques • Motion - Kinematics • Mass Weight and Density • Forces • Turning Effect of Forces • Energy, Work and Power • Pressure <p><i>Ref: Cambridge IGCSE Physics 0625 syllabus for 2023, 2024 and 2025</i></p>
<p style="text-align: center; font-size: 2em;">Chemistry</p>	<p>Unit 1: States of Matter Unit 2: Elements, Compounds and Mixtures Unit 3: Atomic Structure Unit 4: Ionic, Covalent & 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>
<p style="text-align: center; font-size: 2em;">Biology</p>	<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 19.1 Human pressures on ecosystem</p> <p><i>Reference:</i></p> <ul style="list-style-type: none"> • <i>Cambridge IGCSE Biology 0610- Syllabus for Exams in 2023, 2024 and 2025.</i> • <i>Coursebook: Cambridge IGCSE Biology 4th Edition by Mary Jones, Geoff Jones</i>

<h1>Economics</h1>	<p>Section 1: Basic Economic Problem 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>Section 2: The allocation of resources. 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 (2nd Edition)</p>
<h1>Business Studies</h1>	<p><u>Section 1: Understanding Business Activity</u></p> <ul style="list-style-type: none"> ▪ Chapter 1: Business Activity ▪ Chapter 2: Classification of Business ▪ Chapter 3: Enterprise, Business growth and Size ▪ Chapter 4: Types of Business Organization ▪ Chapter 5: Business objectives and Stakeholders objectives. <p><u>Section 2: People in Business</u></p> <ul style="list-style-type: none"> ▪ Chapter 6: Motivating Employees ▪ Chapter 7: Organization and Management ▪ Chapter 8: Recruitment, selection and training employees ▪ Chapter 9: Internal and external communication <p>Ref: Cambridge IGCSE and O Level Business Studies Coursebook – Revised Third Edition <i>By: Mark Fisher, Medi Huoughton 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>