Pakistan International School, seeJeddah
Cambridge Curriculum Section (CCS)
(Academic Session 2024-2025)
Entrance Test Syllabus (Playgroup)

Syllabus
Parents Interview. ● (The child and his/her mother must be present at the time of interview.)

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Pakistan International School, Jeddah
Cambridge Curriculum Section (CCS)
(Academic Session 2024-2025)
Entrance Test Syllabus (Nursery)

Subject	Syllabus
Math	- Trace over the Strokes (dotted lines) - Recognize the shapes (Orally) -Circle -Square -Rectangle -Triangle - Recognition of numbers and tracing (0 - 10) - Identify a few colours. (Red, Green, Blue, Yellow)
English	- Recognition of Letters (Aa-Zz) (Upper and lower case) - Trace the alphabets (Aa-Zz) - Initial sound of the letters (Aa - Zz)

Entrance Test Syllabus (Reception)

Subject	Syllabus
Math	● Numbers recognition and formation 0 -20 ● Shapes recognition 2D (circle, square, rectangle. triangle, oval) ● Backward counting 10-0 ● Colours recognition
English	● Letters formation and recognition Aa-Z z (upper, lower) ● Initial sound of the letters Aa – Z z ● Recognition of the vowels (a, e, i, o, u) ● Match the letters with the picture
Urdu	● حروف تہجی کی پہچان ا-ژ ● تصویر کی شروع کی آواز ● حرف کو تصویر سے ملانا ● مصوتوں کی پہچان (ا-و-ی-ے) ● رنگوں کی پہچان

Pakistan International School, Jeddah
Cambridge Curriculum Section (CCS)
(Academic Session 2024-2025)
Entrance Test Syllabus (Grade I)

Subject	Syllabus
Math	- Forward Counting 1-100 - Missing Counting 1-100 - Backward Counting 20-0 - Odd and Even - Patterns - One-digit Addition - One-digit Subtraction - Number Names 1-20 2D Shapes
English	**Phonemic Awareness** (The ability to hear and identify the individual sounds in spoken words) **Short CVC words** (e.g.: cat, bed, bib, pop, cub) **Long Vowels words** **Digraphs** (two letters representing one phoneme e.g. th, oo, sh, ch) **Short Comprehension** (Unseen) **High Frequency words** (Recognition) **Punctuation** (Use of Capital Letter, Period and Question mark)
Urdu	چار حرفی الفاظ جوڑنا اور الگ کرنا بصری ذخیرہ الفاظ کی مدد سے خالی جگہ پر کرنا تصویر کی مناسبت سے لفظ مکمل کرنا چار حرفی الفاظ اور جملوں کی بلند خوانی تفہیم

Pakistan International School, Jeddah
Cambridge Curriculum Section (CCS)
(Academic Session 2024-2025)
Entrance Test Syllabus (Grade II)

Subject	Syllabus
Math	- Missing Number (1-100) - Number Names (1-100) - Addition Count on (1-10) - Subtraction count back (1-10) 2D Shapes(straight, curve) 3D shapes (edges, faces) - Time(o'clock and half past in analog) - Measurement(long, short, heavy and light) - Fraction(halves) - Statistics(Venn diagram and Carroll)
English	- Unseen Comprehension **Grammar:** - Nouns, verbs, Adjectives, Punctuation (capital letter and full stop) - Writing skills: - Frame sentences - Phonics: ee, oo, ai, ue
Urdu	1-بنیادی مصوتوں کے ساتھ الفاظ سازی (ا،و،ی،ے) 2-تصویری تفہیم- 3-جملہ سازی-

Pakistan International School, Jeddah
Cambridge Curriculum Section (CCS)
(Academic Session 2024-2025)
Entrance Test Syllabus (Grade III)

Subject	Syllabus
Math	- Addition and subtraction (single & two digits) - Skip count by 2's, 5's and 10's - Even and Odd numbers - Identify the place value of a number (up to tens). - Compare numbers to 100 (>, <, =) - Multiplication. (Table of 2, 3, 4, 5, 10) - Ordering numbers from smallest to largest or from largest to smallest (up to 100) - Units of time 2D shapes- names + vertices and sides 3D shapes-names + Faces, edges & corners - Fractions (halves and quarters)
English	Unseen Comprehension **Grammar:** - Nouns - Adjectives - Verbs - Punctuation (Capital letter, comma, fullstop, question mark) - Connectives (and, but, because) **Writing Skills:** - Story Ending - Instruction Writing **Phonics:** - Long 'e' words - Long 'a' words - Long 'i' words
Urdu	• تفہیم • جملہ سازی • سوالیہ نشان اور ختمہ کی پہچان

Pakistan International School, Jeddah
Cambridge Curriculum Section (CCS)
(Academic Session 2024-2025)
Entrance Test Syllabus (Grade IV)

Subject	Syllabus
Math	- Number sequences (counting forward and backward in 1s,2s, 3s,4s, 5s, 10s, 100s, 1000s) - Place Value up to thousands - Rounding numbers to the nearest 10 and 100 - Addition and subtraction of whole numbers - Multiplication. (Table of 2 - 10) - Division of 2-digit number by 2 till 10 - Fractions - Types of angles (acute, right and obtuse) - Reading time on digital and analogue clocks - Pictogram, Venn Diagram and Carroll Diagram
English	**Comprehension:** Unseen comprehension passage **Grammatical concepts:** - Pronouns - Noun phrases - Sequencing words - Singular Plurals - Homophones - Synonyms - Connective (and, but, because) - Irregular verbs **Writing skills:** - Letter writing - Story writing
Urdu	تخلیقی کام:مضمون نویسی، تفہیم، جملہ سازی

Pakistan International School, Jeddah
Cambridge Curriculum Section (CCS)
(Academic Session 2024-2025)
Entrance Test Syllabus (Grade V)

Subject	Syllabus
Math	- Number sequences (counting forward and backward in 1s,2s, 3s,4s, 5s, 10s, 100s, 1000s) - Place Value up to Ten thousands - Rounding numbers to the nearest 10,100 and 1000 - Ordering and comparing whole numbers - Addition and subtraction of whole numbers - Multiplication of single- digit number by 2-digit number - Division of 2-digit number by 2 till 10 - Addition and Subtraction of fractions - Ordering and Comparing fraction - Types of angles (acute, right, obtuse and straight) - Reflection and Symmetry - Reading time on digital and analogue clocks - Pictograms and Venn Diagrams
English	**Comprehension:** Unseen comprehension passage. **Grammatical concepts:** - Present, past and future tenses (Simple) - Adverbs and adverbial phrases (time, manner, place) - Adjectives (comparative and superlative forms) - Subject-Verb agreement - Quantifiers - Command verbs - Punctuations (use of full stop, commas and capitalization) **Writing skills:** - Fable/story writing - Summary writing
Urdu	1-تفہیم 2- مضمون نگاری 3- جملہ سازی

Subject	Syllabus
Math	- Place Value of whole numbers up to ten thousand - Place Value of decimals up to 2 decimal places - Comparing and ordering whole numbers, decimals and fractions (with same denominator) - Positive and Negative Number sequences - Factors and multiples - Addition and subtraction of whole numbers and decimal numbers - Multiplying two 2–digit numbers - Dividing a 3–digit number by a single–digit number - Fractions, percentages and decimals equivalents - Averages (mode and median) - Types of triangles (on the basis of sides and angles) - Classification of angles as acute, obtuse, right, straight, reflex and full angles - Area and perimeter of rectangles - Reading Time in 12– or 24–hour clocks using digital and analogue clocks. - Calculating Time Intervals - Pictographs, line graphs, dotplot and bar graphs.
English	**Comprehension:** Unseen comprehension passage. **Grammatical concepts:** - Present, past and future tenses - Adverbs and adverbial phrases. - Adjectives (comparative and superlative forms) - Subject-Verb agreement - Quantifiers - Narrative voice - Command verbs - Punctuation (use of full stop, commas, contraction, apostrophe and capitalization) - Literal & Figurative Language- Alliteration, Personification, Simile, Metaphor, Idioms - Compound & Complex Sentences-Connectives & Clauses - Direct & Reported Speech (Simple past and present) **Writing skills:** - Fable/story writing - Synopsis writing - Letter writing
Urdu	مضمون نویسی * خط نویسی (رسمی اور غیر رسمی خط) * تفہیم * جملہ سازی *

Science	● Parts and functions of the digestive system ● Flowering and non-flowering plants ● Friction, Air resistance, water resistance and upthrust ● Changing the volume and pitch of sound ● Evaporation and condensation ● Seasonal changes

Pakistan International School, Jeddah
Cambridge Curriculum Section (CCS)
(Academic Session 2024-2025)

Entrance Test Syllabus (Grade VII)

Subject	Syllabus
Math	**Number and Number System** **Whole Numbers & Decimals** ● Place Value of Whole Numbers. ● Place Value of Decimals up to 3 decimal places. ● Rounding whole numbers to a specified number of places. ● Rounding decimals up to 2 decimal places. ● Comparing and ordering whole numbers, decimals and fractions ● Positive and Negative Number sequences. ● Factors and Multiples. ● Prime and Composite Numbers. ● Divisibility rules for 2, 3, 5, 6, 9, 10. ● Finding fractions or percentages of quantities. ● Converting between fractions, decimals and percentages. ● Addition and subtraction of decimals. Multiplying a decimal by a whole number. ● Multiplying two 2 digit numbers. ● Dividing a 3 digit number by a single digit number. ● Ratio and Proportion. ● Problem solving involving Addition, Subtraction, Multiplication and Division. ● Convert mixed numbers into improper fractions and vice versa. ● Finding equivalent fractions and simplest forms of fractions, fraction and decimals equivalents. **Geometry** ● Classification of triangles and quadrilaterals, and their properties. ● Classification of angles; perpendicular and parallel lines. ● Area and Perimeter of squares and rectangles. ● Identification of 2D and 3D shapes. **Time** ● Reading time in a 12-hour or 24-hour clock using digital and analogue clocks. ● Calculating Time Intervals. **Handling Data** ● Bar charts, pie charts and line graphs ● Averages and ranges **Probability** ● Likelihood scale ● Mutually and non-mutually exclusive

English	**Comprehension:** Unseen Comprehension Passage **Language Skills:** • Direct and Indirect Speech • Active Passive Voice • Verb Forms (Tenses) • Connectives • Conditionals • Punctuation (dashes, hyphens, colons and semi-colons, brackets, commas, question marks, speech marks) • Prepositional verbs • Modals • Types of Sentence (Simple, Compound, Complex) • Comparative and Superlative Adverbs • Relative Clauses • Subordinate Clauses • Parts of Speech • Adjective and Adverbial Phrases and Clauses • Subject-Verb Agreement **Writing Skills:** Story Writing, Character Writing, Letter Writing, Dialogue Writing
Urdu	<div dir="rtl"> - مضمون نویسی - خط نویسی(رسمی و غیر رسمی خط) - خلاصہ نگاری - محاورات </div>
Science	- The circulatory system - The respiratory system - Food chains, food web and energy transfers - Properties of substances - Thermal and electrical conductors - Reversible changes - Reflection - Refraction - The Solar system

Pakistan International School, Jeddah
Cambridge Curriculum Section (CCS)
(Academic Session 2024-2025)

Entrance Test Syllabus (Grade VIII)

Subject	Syllabus
Math	**Arithmetic:** ● Factors, Multiple and Primes ● Squares and Cubes; Square roots and Cube roots ● Indices ● Place value (whole numbers and decimals) ● Addition, Subtraction, Multiplication and Division of Whole numbers, Integers, Fractions and Decimals ● Ordering Whole numbers, Integers, Decimals and Fractions in ascending/descending order ● Percentages ● Ratio and Proportion ● Understand term-to-term rules and generate sequences from numerical and spatial patterns. **Algebra:** ● Constructing, Simplifying, Expanding and Factorizing algebraic expressions ● Constructing and solving linear Equations **Geometry and measure:** ● Solving geometric problems using properties of angles of parallel lines, intersecting lines, triangles and quadrilaterals ● Vertically opposite angles, corresponding angles, alternate angles, supplementary angles, exterior and interior angles of triangles; recognizing congruent shapes. ● Calculate area and perimeter of triangle, square, rectangle, parallelogram, trapezium ● Lines of symmetry and order of rotational symmetry of quadrilaterals and polygons ● Circumference of a circle and semicircle ● Calculate volume of rectangular and triangular prism ● Faces, vertices and edges of 3D shapes ● Converting units ● Transformations: Translation, Reflection, Rotation, Enlargement **Statistics:** ● Plotting graphs ● Intercept and gradient ● Calculating probabilities; Averages and range ● Bearings ● Frequency diagrams, bar charts, pie charts, line graphs and stem and leaf diagrams. ● Interpreting real-life graphs, travel graphs.
English	**Unseen Comprehension** **Language:** Contractions Figurative and literary devices (simile, personification, hyperbole, onomatopoeia, alliteration, metaphor) Simple, Compound and Complex sentences Connectives Ellipsis

	Adjectives and degrees Pronouns Persuasive Techniques (Imperatives, Rhetorical questions, emotive language, triples, repetition, direct address, statistics Modal verbs Images (Aural, Tactile and visual) Punctuation Subordinating and coordinating conjunctions Active and Passive voice Discourse markers Phrases and types (Noun, Prepositional, adverbial) **Writing Skills :** Opinion writing Article writing Report writing Monologue Dialogue Play-script
Science	**Biology:** <u>Unit 1: RESPIRATION</u> 1.1 The human respiratory system 1.3 Breathing 1.4 Respiration 1.5 Blood <u>Unit 4: ECOSYSTEMS</u> 4.1 Sonoran Desert 4.2 Different ecosystems 4.3 Intruders in an ecosystem <u>Unit 7: DIET AND GROWTH</u> 7.1 Nutrients 7.2 A balanced diet 7.3 Growth, development and health 7.4 Moving the body **Chemistry:** <u>Unit 2: PROPERTIES OF MATERIALS</u> 2.1: Dissolving 2.2: Solutions & solubility 2.4: Paper chromatography <u>Unit 5: MATERIALS AND CYCLES ON THE EARTH</u> 5.1 The structure of the atom 5.2 Purity Unit 5.3 Weather and Climate <u>Unit 8: CHEMICAL REACTIONS</u> 8.1: Exothermic Reactions 8.2: Endothermic Reactions **Physics:** <u>Unit 3: FORCES AND ENERGY</u> 3.1: Forces & motion 3.2: Speed 3.4: Turning forces 3.5: Pressure between solids 3.6: Pressure in liquids & gases <u>Unit 6: LIGHT</u> 6.1 Reflection 6.2 Refraction 6.3 Making Rainbows 6.4 Colors of light <u>Unit 9: MAGNETISM</u>

	9.1 Magnetic field 9.2 The Earth as a giant magnet 9.3 Electromagnets
Urdu	1-محاورات 2-خلاصہ نگاری 3-تفہیم 4-مضمون نویسی 5-خط نویسی (رسمی و غیر رسمی خط)

Pakistan International School, Jeddah
Cambridge Curriculum Section (CCS)
(Academic Session 2024-2025)
Entrance Test Syllabus (Grade IX)

Subject	Syllabus

Math	**Arithmetic**
	  ● Integers, powers and roots
	  ● Place value, ordering and rounding
	  ● Fractions, decimals, percentages, ratio and proportion
	  ● Speed, distance, time
	Algebra
	  ● Expressions, equations and formulae, inequalities
	  ● Sequences, functions and graphs
	Geometry and Measure
	  ● Geometrical reasoning, shapes and measurements
	  ● Position and transformation
	Statistics and Probability
	  ● Statistics (data handling)
	  ● Probability

English	**Unseen Comprehension** **Language:** Figurative Language (assonance, consonance, flashback, foreshadowing, metaphor, onomatopoeia, simile, oxymoron, extended metaphor, personification, symbol) Persuasive techniques (repetition, hyperbole, triples, rhetorical questions, emotive language, exclamations, statistics, direct address, alliteration, imperatives) Compound and Complex sentences Formal and informal English (Standard and non-standard) Adjectives and degrees Adverbs and degrees Images (Aural, Tactile and visual) Punctuation Phrases and types (Noun, Prepositional, adverbial,adjective phrase) **Writing Skills :** Opinion writing Story writing Play-script Article/ Report writing

		Descriptive Writing Narrative Writing
Science		**Biology** **Unit:1 Photosynthesis & Carbon Cycle** 1.1: Photosynthesis 1.2: More about Photosynthesis 1.3: The Carbon Cycle 1.4: Climate Change **Unit: 4 Maintaining Life** 4.1 Plants & Water 4.2 Transpiration 4.3 Excretion in Humans 4.4 Keeping a Fetus Healthy **Unit:7 Genes and inheritance** 7.1 Chromosomes, Genes & DNA 7.2 Gametes & Inheritance 7.3 Variations 7.4 Natural Selection **Chemistry** **Unit 2: Properties of materials** 2.1 Atomic structure and the Periodic Table 2.2 Trends in groups within the Periodic Table 2.3 Why elements react to form compounds 2.4 Simple and giant structures **Unit 5: Reactivity** 5.1 Reactivity and displacement reactions 5.2 Using the reactivity series and displacement reactions 5.3 Salts 5.4 Other ways of making salts 5.5 Rearranging atoms **Unit 8: Rates of reaction** 8.1 Measuring the rate of reaction 8.2 Surface Area and the rate of reaction 8.3 Temperature and the rate of reaction 8.4 Concentration and the rate of reaction **Physics** **Unit: 3 Forces & Energy** 3.1: Density 3.2: Heat & Temperature 3.3: Conservation of Energy 3.4: Moving from Hot to Cold 3.5: Ways of Transferring Thermal Energy 3.6: Cooling by Evaporation **Unit:6 Sound and Space** 6.1: Loudness & Pitch of Sound 6.2 Interference of Sound 6.3 Formation of Moon

	6.4 Nebulae 6.5 Tectonics **Unit: 9 Electricity** 9.1 Parallel Circuits 9.2 Current & Voltage in Parallel Circuits 9.3 Resistance 9.4 Practical Circuit *Ref: Cambridge Lower Secondary Science Learner's Book 9; 2nd Edition by Jones, Freeman & Smyth*
Urdu	۱۔ مضمون نگاری ۲۔ ای میل (برقی نامہ نویسی) ۳۔ تفہیم(نا دیدہ) ۴۔ تلخیص نگاری بحوالہ کتاب (اردو او لیول سلیبس بی مجیب الر حمٰن (IGCSE CODE 0539)
Pakistan Studies	History Chap 2: Causes & Consequences of decline of Mughal Empire Chap 3: Causes of War of Independence Geography Chap 1: The natural Topography chap 2: Climate
Islamiyat	**Chapter 1 : Major Themes of Holy Quran** ● Passages 1 to 5 **Chapter 3 : The Life and Importance of the Prophet Muhammad (Pbuh)** ● Early life of Holy Prophet Pbuh ● First Revelation ● Opposition and persecution by the Quraish ● Mi'raj ● Pledges of Aqabah ● Migration to Madinah **Chapter 5 : Major Teachings in the Hadiths of the Holy Prophet (Pbuh)** ● Hadith no. 1 to 5 **Chapter 7 : The Period of Rule of the Rightly Guided Caliphs and their Importance as Leaders** ● Caliphate of Hazrat Abu Bakr R.A *Reference Book: Cambridge O Level Islamiyat*

Subject	Syllabus
Math	**Number** ▪ Arithmetic (decimals, fractions) ▪ Number Facts (rational and irrational numbers) ▪ Sequences ▪ Measurements and Bounds ▪ Standard Form ▪ Ratio and Proportion ▪ Percentages increase, decrease, compound percentages) ▪ Interest (Simple, Compound) ▪ Speed, Distance and Time **Algebra and graphs** ▪ Formulae, expressions and equations ▪ Brackets and Simplifying ▪ Linear and Quadratic Equations ▪ Problems Solved by Linear Equations ▪ Simultaneous Equations ▪ Factorization **Geometry** ▪ Area, volume and surface area of 2D and 3D shapes ▪ Shaded areas and area of compound shapes ▪ Polygons (interior and exterior angles and number of sides) ▪ Parallel Lines (alternate, corresponding, allied, vertically opposite) ▪ Pythagoras' Theorem ▪ Symmetry (line, rotational and plane) ▪ Similarity (similar shapes, areas of similar shapes, volumes of similar shapes) **Trigonometry** ▪ Right Angled Triangles (sine, cosine, tangent, finding unknown angle, unknown side) ▪ Bearings ▪ Three-Dimensional Problems **Transformations and vectors** **Probability and Statistics**

English	**Unseen Comprehension** **Language :** Persuasive techniques (repetition, hyperbole, triples, rhetorical questions, emotive language, exclamations, direct address, alliteration, imperatives) Compound and Complex Types of sentences Adjectives and degrees Adverbs and degrees Punctuation Collocations Connotations **Writing Skills:** Email Writing Article/ Report writing Descriptive Writing Narrative Writing Review Writing Students should know the usage of compound and complex sentences in writing.
Computer Science	**Number systems:** Concepts included (Binary, Conversion from binary to denary, Conversion from denary to binary) **Input and Output Devices:** Concepts included (basic devices) **Types of softwares:** Concepts included (System software, Application software) Note: This test is designed to assess your understanding of fundamental computer science concepts.
Science	*Biology:* 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 Reference: • Cambridge IGCSE Biology 0610- Syllabus for Exams in 2023, 2024 and 2025. • Course book: Cambridge IGCSE Biology, 4th Edition; Mary Jones and Geoff Jones *Physics:* *Concepts:* • **Measurement - techniques for measuring Physical quantities** • **Scalars and vectors quantities** • **Describing Motion- calculating speed and acceleration using graphs** • **Forces and motion - Weight, mass, gravity, free falling and circular motion** • **Turning effects** • **Pressure in solids, liquids and gases** • **Load and Extension of a spring**

	• **Energy, Work and Power** *Ref: Cambridge IGCSE Physics 0625 syllabus for 2023, 2024 and 2025* ***Chemistry:*** 1. States of Matter 2. Atoms, elements and compounds 3. Atomic structure 4. Ionic, Covalent and Metallic Bonding 5. Chemical Formulae and Equations 6. Acid, Base and Salt 7. Periodic Table 8. Experimental techniques and chemical analysis ***Ref: Cambridge IGCSE Chemistry 0620 syllabus for 2023, 2024 and 2025***

Subject	Syllabus
Math	**Number** ▪ Arithmetic (decimals, fractions) ▪ Number Facts (rational and irrational numbers) ▪ Sequences ▪ Measurements and Bounds ▪ Standard Form ▪ Ratio and Proportion ▪ Percentages increase, decrease, compound percentages) ▪ Interest (Simple, Compound) ▪ Speed, Distance and Time **Algebra and graphs** ▪ Formulae, expressions and equations ▪ Brackets and Simplifying ▪ Linear and Quadratic Equations ▪ Problems Solved by Linear Equations ▪ Simultaneous Equations ▪ Factorization **Geometry** ▪ Area, volume and surface area of 2D and 3D shapes ▪ Shaded areas and area of compound shapes ▪ Polygons (interior and exterior angles and number of sides) ▪ Parallel Lines (alternate, corresponding, allied, vertically opposite) ▪ Pythagoras' Theorem ▪ Symmetry (line, rotational and plane) ▪ Similarity (similar shapes, areas of similar shapes, volumes of similar shapes) **Trigonometry** ▪ Right Angled Triangles (sine, cosine, tangent, finding unknown angle, unknown side) ▪ Bearings ▪ Three-Dimensional Problems **Transformations and vectors** **Probability and Statistics**
English	**Unseen Comprehension** **Language :** Persuasive techniques (repetition, hyperbole, triples, rhetorical questions, emotive language, exclamations, direct address, alliteration, imperatives) Compound and Complex Types of sentences Adjectives and degrees Adverbs and degrees Punctuation Collocations Connotations **Writing Skills:**

	Email Writing Article/ Report writing Descriptive Writing Narrative Writing Review Writing Students should know the usage of compound and complex sentences in writing.
Computer Science	**Number systems:** Concepts included (Binary, Conversion from binary to denary, Conversion from denary to binary) **Input and Output Devices:** Concepts included (basic devices) **Types of soft wares:** Concepts included (System software, Application software) Note: This test is designed to assess your understanding of fundamental computer science concepts.
Accounting	1. Introduction to accounting 2. Double Entry Book Keeping-Part A 3. The trial balance 4. Double Entry Book Keeping-Part B 5. Petty cash books 6. Business documents 7. Books of Prime Entry 8. Other payables and receivables 9. Accounting for depreciation and disposal of non-current assets 10. Irrecoverable debts and provision for doubtful debts 11. Bank reconciliation statements
Business Studies	1. Business activity and classification of businesses 2. Enterprise, business growth and size 3. Business and stakeholder's objectives 4. Motivating employees 5. Organization structures and management 6. Recruitment, selection and training of employees 7. Internal and external communication
Economics	1. The nature of economic problem 2. Factors of production 3. Opportunity cost 4. Production possibility curve 5. The role of markets in allocating resources, concept of demand and supply, price mechanism 6. Price elasticity of demand and price elasticity of supply 7. Economic systems (Planned, Mixed, Market) 8. Market failure

Pakistan International School, Jeddah
Cambridge Curriculum Section (CCS)
(Academic Session 2024-2025)
Entrance Test Syllabus (Grade X - COMBINATION GROUP)

Subject	Syllabus
Math	**Number** ▪ Arithmetic (decimals, fractions) ▪ Number Facts (rational and irrational numbers) ▪ Sequences ▪ Measurements and Bounds ▪ Standard Form ▪ Ratio and Proportion ▪ Percentages increase, decrease, compound percentages) ▪ Interest (Simple, Compound) ▪ Speed, Distance and Time **Algebra and graphs** ▪ Formulae, expressions and equations ▪ Brackets and Simplifying ▪ Linear and Quadratic Equations ▪ Problems Solved by Linear Equations ▪ Simultaneous Equations ▪ Factorization **Geometry** ▪ Area, volume and surface area of 2D and 3D shapes ▪ Shaded areas and area of compound shapes ▪ Polygons (interior and exterior angles and number of sides) ▪ Parallel Lines (alternate, corresponding, allied, vertically opposite) ▪ Pythagoras' Theorem ▪ Symmetry (line, rotational and plane) ▪ Similarity (similar shapes, areas of similar shapes, volumes of similar shapes) **Trigonometry** ▪ Right Angled Triangles (sine, cosine, tangent, finding unknown angle, unknown side) ▪ Bearings ▪ Three-Dimensional Problems **Transformations and vectors** **Probability and Statistics**
English	**Unseen Comprehension** **Language :** Persuasive techniques (repetition, hyperbole, triples, rhetorical questions, emotive language, exclamations, direct address, alliteration, imperatives) Compound and Complex Types of sentences Adjectives and degrees Adverbs and degrees Punctuation Collocations Connotations

	Writing Skills: Email Writing Article/ Report writing Descriptive Writing Narrative Writing Review Writing Students should know the usage of compound and complex sentences in writing.
Computer Science	**Number systems:** Concepts included (Binary, Conversion from binary to denary, Conversion from denary to binary) **Input and Output Devices:** Concepts included (basic devices) **Types of softwares:** Concepts included (System software, Application software) Note: This test is designed to assess your understanding of fundamental computer science concepts.
Accounting	1. Introduction to accounting 2. Double Entry Book Keeping-Part A 3. The trial balance 4. Double Entry Book Keeping-Part B 5. Petty cash books 6. Business documents 7. Books of Prime Entry 8. Other payables and receivables 9. Accounting for depreciation and disposal of non-current assets 10. Irrecoverable debts and provision for doubtful debts 11. Bank reconciliation statements
Physics	*Concepts:* • **Physical Quantities and measurement techniques** • **Describing Motion- calculating speed and acceleration using graphs)** • **Forces and motion** • **Turning effects, Scalars and vectors quantities** • **Pressure in solids, liquids and gases** • **Load and Extension of a spring** • **Energy, Work and Power** *Ref: Cambridge IGCSE Physics 0625 syllabus for 2023, 2024 and 2025*
Chemistry	*Chemistry:* 1. States of Matter 2. Atoms, elements and compounds 3. Atomic structure 4. Ionic, Covalent and Metallic Bonding 5. Chemical Formulae and Equations 6. Acid, Base and Salt 7. Periodic Table 8. Experimental techniques and chemical analysis ***Ref: Cambridge IGCSE Chemistry 0620 syllabus for 2023, 2024 and 2025***