Pakistan International School,Azizyah Jeddah
Cambridge Curriculum Section (CCS)
(Academic Session 2026-2027)

Entrance Test Syllabus for admission in Playgroup

Syllabus
Parents Interview. ● The child and his/her mother must be present at the time of the interview. ● Students are expected to be toilet-trained. ● The students should be able to say their names. ● The students should have a basic understanding of English.

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Pakistan International School, Azizyah Jeddah
Cambridge Curriculum Section (CCS)
(Academic Session 2026-2027)

Entrance Test Syllabus for admission in Nursery

Subject	Syllabus
Math	• Trace over the Strokes (dotted lines) • Recognise the shapes (Orally) -Circle -Square -Rectangle -Triangle • Recognition of numbers and tracing (0 - 10)
English	• Recognition of Letters (Aa-Zz) (Upper and lower case) • Trace the alphabet (Aa-Zz) • Initial sound of the letters (Aa - Zz)

(Parents will be allowed to sit with their children in the nursery entrance examination room)

Pakistan International School, Azizyah Jeddah
Cambridge Curriculum Section (CCS)
(Academic Session 2026-2027)

Entrance Test Syllabus for admission in Reception

Subject	Syllabus
Math	• Numbers recognition and formation 0 -20 • Shapes recognition 2D (circle,square, rectangle,triangle,oval) • Backward counting 10-0 •
English	• Letters formation Aa-Zz (upper,lower) • 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

(Parents will not be allowed to sit with their children in the Reception Entrance Examination room)

Pakistan International School, Azizyah Jeddah
Cambridge Curriculum Section (CCS)
(Academic Session 2026-2027)
Entrance Test Syllabus for admission in (Grade I)

Subject	Syllabus
Math	• Number recognition, concepts & formation (1-20) • Rote Counting (1-80) • Missing Numbers • One-Digit Addition • One-Digit Subtraction • 2D and 3D shapes • Count by 5's and 10's • Number names(1-10)
English	• Phonemic Awareness • Short CVC Words (mat, kit, cup, hop) • Long Vowel Words e.g (cake, tape, play, seat, meat, light, fire, hose, bow, tube) • High - Frequency Words • Sentence Making using easy CVC words (This is a cat) (I can see a cat) (I have a cat) • Reading Comprehension with easy three-letter words and answering simple questions.
Urdu	تصویر کا پہلا حرف لکھیں • چار حرفی الفاظ جوڑنا اور الگ کرنا • پھلوں کے نام(کوئی سے تین) • میرا تعارف • (میرا نام__--- ہے) • میں ایک___ لڑکا/ لڑکی ہوں. • میں __- سال کا/ کی ہوں. • رنگوں کے نام(کوئی سے تین) • لفظی گنتی (ایک سے پانچ)

Pakistan International School, Azizyah Jeddah
Cambridge Curriculum Section (CCS)
(Academic Session 2026-2027)

Entrance Test Syllabus for admission in (Grade II)

Subject	Syllabus
Math	Numbers from 1- 10 (missing numbers, before, after and in between) Number names (numbers in words) (1-10) + Ordinal Numbers (1-10) Addition (Count on) and Subtraction (Count back) (1-10) Addition and subtraction using number line (1-10) Even and Odd numbers Comparison (Fewer or more) (1-10) 2D Shapes (names of shapes) Time (o'clock and half past in analogue clocks) Measurement (long, short, heavy and light) Fraction (halves)
English	**Comprehension** ● Unseen Comprehension ● Read the passage and answer the questions carefully ● True and False/ Choose the correct option related to the given passage **Grammar:** ● Nouns ● Verbs as action words ● Adjectives ● Use of a and an ● Punctuations (capital letter and full stop) **Writing Skill:** ● Frame sentences **Phonics:** Consonant blends Rhyming words Short vowel (a,e,i,o,u), long vowel 'a'
Urdu	اردو گنتی(1-10) حروف توڑیں اور جوڑیں تصویر دیکھ کر پہلے حروف کی پہچان کریں جملہ سازی

Pakistan International School, Azizyah Jeddah
Cambridge Curriculum Section (CCS)
(Academic Session 2026-2027)

Entrance Test Syllabus for admission in (Grade III)

Subject	Syllabus
Math	Subtraction(Count back) using a number line Addition and Subtraction (uptill two digits) Skip count by 2's, 5's and 10's Even and Odd numbers (1 to 30) Identify the place value of a number (ones and tens). Compare numbers to 100 (>, <, =) Multiplication. (single digit, single digit by 2 digit number) Ordering numbers (smallest to largest, largest to smallest) Time (o'clock and half past in analogue, digital time) 2D shapes - names, vertices(corners) and sides Fractions (halves and quarters) Addition and Subtraction Word Problems Pictograms Table of 2, 3, 4, 5, 10
English	**Comprehension** ● Unseen Comprehension ● Read the passage and answer the questions carefully ● True and False/ Choose the correct option related to the given passage **Grammar:** ● Nouns ● Adjectives ● Verbs ● Verb endings(-ed and -ing) ● Punctuation (Capital letter, comma, full stop, question mark) ● Homophone ● Preposition ● Plurals **Writing Skills:** ● Instruction Writing ● story ending **Phonics:** ● Long 'a' and long 'i' words ● suffix (ful, ly) prefix (un, dis)
Urdu	تفہیم اسم جملہ سازی "ہے "اور"ہیں" کا استعمال

Pakistan International School,Azizyah Jeddah
Cambridge Curriculum Section (CCS)
(Academic Session 2026-2027)

Entrance Test Syllabus for admission in (Grade IV)

Subject	Syllabus
Math	**Number and Number System** Place Value (up to thousands) Rounding off numbers to the nearest 10 and 100 Number sequences (counting forward and backward in 1s, 2s, 3s, 4s, 5s, 10s, 100s, 1000s) Addition and subtraction of whole numbers (a 3-digit and a 2-digit number, pairs of 2-digit and 3-digit numbers) Adding a single-digit number to a 3-digit number Subtracting a single-digit number from a 3-digit number Ordering and comparing whole numbers Identification of odd and even numbers Multiplication of single-digit number by 2-digit number Word Problems (addition, subtraction, multiplication and division). **Fractions** Finding equivalent fractions using given shapes Addition and Subtraction of fractions with same denominator **Geometry** Identification of right angles Names and identification of 2D and 3D shapes Area and Perimeter
English	**Comprehension** ● Unseen Comprehension ● Read the passage and answer the questions carefully ● True and False/ Choose the correct option related to the given passage **Grammatical concepts:** ● Nouns ● Forms of verbs (Present tense and Past tense) ● Pronouns ● Noun phrases ● Command verbs ● Adjectives ● Compound words ● Connectives (and, but, because) ● Irregular verbs ● Plurals ● Punctuations (use of full stop and capital letters, use of comma, question marks) **Writing skills:** ● story writing ● Play script

Urdu	• تفہیم مزکر مونث جملہ سازی حروف جار

Pakistan International School,Azizyah Jeddah
Cambridge Curriculum Section (CCS)
(Academic Session 2026-2027)

Entrance Test Syllabus for admission in (Grade V)

Subject	Syllabus
Math	**Number and Number System** Number sequences (counting forward and backward in 1s, 2s, 3s, 4s, 5s, 10s, 100s, 1000s) Place Value up to Ten thousand Rounding numbers to the nearest 10,100, 1000 and 10000. Ordering and comparing whole numbers Identification of odd and even numbers Addition and subtraction of whole numbers (uptill 3-digit numbers) Multiplication of single-digit number by 2-digit number Division of 2-digit numbers by a single digit number Word Problems (related to addition, subtraction, multiplication and division). **Fractions** Identifying equivalent fractions Addition and Subtraction of fractions with same denominators Ordering and Comparing fractions **Geometry** Identification of acute and obtuse angles Identification of 2D and 3D shapes Symmetry Area and Perimeter **Time** Identification of time on the digital and analogue clocks in numbers and words (o'clock, quarter past, half past, quarter to)
English	**Comprehension** • Unseen Comprehension • Read the passage and answer the questions carefully • True and False/ Choose the correct option related to the given passage **Grammatical concepts:** • Present, past and future tenses (Simple) • Adverbs and adverbial phrases (time, manner, place) • Adjectives (comparative and superlative forms) • Subject-Verb agreement • Narrative voice (identification of first and third person) • Quantifiers • Simple and compound sentences • Punctuations (use of full stop, speech marks, apostrophes for contractions and possession, commas and capitalization) **Writing skills:** • Character profile • Fable/story writing • summary writing

Urdu	تفہیم واحد جمع انگرزی جملوں کا اردو ترجمہ الفاظ متضاد

Pakistan International School, Azizyah Jeddah
Cambridge Curriculum Section (CCS)
(Academic Session 2026-2027)
Entrance Test Syllabus for admission in (Grade VI)

Subject	Syllabus
Math	**Number and Number System** Understanding place value up to ten thousands Addition and subtraction of positive and negative numbers Addition and subtraction of decimal numbers Addition and subtraction of fractions Rounding 3- or 4 - digit numbers to the nearest 10, 100 or 1000 Rounding decimal numbers up to 2 decimal places Positive and Negative Number sequences. Factors and multiples Odd and even numbers Comparing and ordering whole numbers Comparing and ordering decimal numbers Multiplication (single digit numbers, 2-digit numbers, single digit numbers with 2-digit numbers) Division (2-digit numbers with single digit numbers, 3-digit numbers with a single digit number) **Fractions** Fractions, decimals and percentages Finding equivalent fractions Multiplying and dividing fractions and decimals Comparing and ordering fractions (with same denominator) **Geometry and measure** Area and perimeter of rectangle Identification of angles as acute, obtuse and right angles Identification of 2D and 3D shapes. (faces, vertices and edges) Reading Time in 12– or 24–hour clocks using digital and analogue clocks. **Statistics and Probability** Interpreting pictographs and bar graphs. Probability

English	**Comprehension** ● Unseen Comprehension ● Read the passage and answer the questions carefully ● True and False/ Choose the correct option related to the given passage **Grammatical concepts:** ● Present, past and future tenses ● Adverbs and adverbial phrases ● Adjectives (comparative and superlative forms) ● Subject-Verb agreement ● Quantifiers ● Narrative voice ● Modal verbs ● Prepositions ● Punctuation (use of full stop, commas, contraction, apostrophe, capitalization, question mark and exclamation mark) ● Literal & Figurative Language- Alliteration, Personification, Simile, Metaphor, Idioms ● Direct & Reported Speech (Simple past and present) **Writing skills:** ● synopsis writing ● Letter Writing (formal and informal)
Urdu	● مضمون نویسی ● خط نویسی (رسمی و غیر رسمی خط) ● تفہیم نگاری ● جملہ سازی
Science	● Forces and Magnetism ● Gravity, Friction, Air resistance, water resistance and upthrust ● Sound energy and the volume and pitch of sound ● Human digestive system ● Life cycle of flowering plants ● Seed dispersal and seed germination ● Evaporation and condensation ● Seasonal changes

Pakistan International School, Azizyah Jeddah
Cambridge Curriculum Section (CCS)
(Academic Session 2026-2027)

Entrance Test Syllabus for admission in (Grade VII)

Subject	Syllabus
Math	**Number and Number System** **Whole Numbers & Decimals** ● Place Value of Whole Numbers up to a million. ● 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, 4, 5, 6, 9, 10, 25, and 100. ● Comparing and ordering whole numbers, decimals and fractions. Finding fractions or percentages of quantities. ● Converting between fractions, decimals and percentages Addition and Subtraction of decimals up to 2 decimal places. Multiplying two 2 digit numbers. ● Dividing a 3 digit number by a single digit number. ● Multiplying a decimal by a whole 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 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 **Grammatical concepts:** ● Direct and indirect speech ● Active voice & Passive voice ● Standard and Non standard English ● Homograph and Homophones ● Suffixes and Prefixes ● Articles ● Fugurative language ● Quantifiers ● Connectives ● Types of sentences ● Conditionals ● Colons and semi colons **Writing skills:** ● Story writing ● News report ● Biography ● Play script
Urdu	● مضمون نویسی ● خط نویسی (رسمی و غیر رسمی خط) ● جملہ سازی ● محاورات
Science	● **Unit 1: The human body** Topic 1.1: The circulatory system Topic 1.2: Topic 1.2: The respiratory system ● **Unit 2: Materials:properties and changes** Topic 2.1: Properties of substances Topic 2.2: Thermal and electrical conductors ● **Unit 4: Food chains and food webs** Topic 4.1: Food chains, food webs and energy transfers Topic 4.2: Harm to food chains and food webs ● **Unit 5: Forces and electricity** Topic 5.1: Mass and weight Topic 5.2: The effects of forces Topic 5.4: Different circuits and circuit diagrams ● **Unit 6: Light and the solar system** Topic 6.1: Reflection

Pakistan International School, Azizyah Jeddah
Cambridge Curriculum Section (CCS)
(Academic Session 2026-2027)

Entrance Test Syllabus for admission in (Grade VIII)

Subject	Syllabus
Math	**Arithmetic:** ● Factors, Multiple and Primes ● Square roots and Cube roots ● Indices ● Place value ● Addition, Subtraction, Multiplication and Division of Whole numbers, Integers, Fractions and Decimals ● Ordering Whole numbers, Integers, Decimals and Fractions in ascending/descending order ● Percentages ● Ratios **Algebra:** 1. Constructing, Simplifying, Expanding and Factorising algebraic expressions 2. 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 ● 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 **Statistics:** ● Plotting graphs ● Intercept and gradient ● Calculating probabilities ● Bearings ● Pie charts ● Transformations: Translation, Reflection, Rotation, Enlargement
English	**Comprehension** ● Unseen Comprehension (Passages) ● Read the passage and answer the questions carefully **Grammatical concepts:** ● Tenses ● Triples ● Emotive language ● Adverbs and adverbial phrases. ● Prefixes and Suffixes ● Modal verbs ● Conditionals ● Types of sentences (Simple, compound, complex and compound complex sentences.

	● Figurative Language (Simile, metaphor, personification, hyperbole,Idioms, Oxymoron ● Direct & Indirect ● Connectives ● Punctuation (Dashes,hyphens, colons. semi-colons, commas, brackets question marks, speech marks, and ellipses. ● Parts of speech ● Comparative and superlative Adverbs ● Relative Clauses. ● Subordinate Clauses ● Subject-verb Agreement ● Active voice and Passive voice **Writing skills:** ● Story writing ● Monologue ● Character Writing ● Paragraph
Science	● **Unit 1: Respiration** Topic 1.1: The human respiratory system Topic 1.5: Blood ● **Unit 2: Properties of materials** Topic 2.1: Dissolving Topic 2.2: Solutions and solubility ● **Unit 3: Forces** Topic 3.1: Forces and motion Topic 3.2: Speed ● **Unit 6: Light** Topic 6.1: Reflection Topic 6.2: Refraction ● **Unit 7: Diet and growth** Topic 7.1 Nutrients Topic 7.2 Balanced diet ● **Unit 8: Chemical reactions** Topic 8.1: Exothermic reactions Topic 8.2: Endothermic reactions
Urdu	● مضمون نویسی ● تفہیم نگاری ● جملہ سازی ●خط نویسی (رسمی و غیر رسمی خط)

Pakistan International School, Azizyah Jeddah
Cambridge Curriculum Section (CCS)
(Academic Session 2026-2027)
Entrance Test Syllabus for admission in (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 (flashback, foreshadowing, metaphor, onomatopoeia, simile, personification, symbol) Persuasive techniques (repetition, hyperbole, triples, rhetorical questions, emotive language, exclamations, 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, olfactory and visual) Punctuation Phrases and types (Noun, Prepositional, adverbial,adjective phrase) **Writing Skills :** Opinion writing Story writing Play-script Article writing Report writing Essay Writing
Science	● **Unit 1:Photosynthesis and carbon cycle** Topic 1.1: Photosynthesis Topic 1.2 More about photosynthesis Topic 1.3: The carbon cycle Topic 1.4: Climate change ● **Unit 2: Properties of materials** Topic 2.1 Atomic structure and the Periodic Table Topic 2.2: Trends in groups within the Periodic Table Topic 2.3 Why elements react to form compounds

	Topic 2.4 Simple and giant structures ● **Unit 3: Forces and energy** Topic 3.1: Density Topic 3.2 Heat and temperature Topic 3.3 Conservation of energy Topic 3.4 Moving from hot to cold Topic 3.5: Ways of transferring thermal energy Topic 3.6 Cooling by evaporation ● **Unit 4 Maintaining life** Topic: 4.1 Plants and water Topic: 4.2 Transpiration Topic: 4.3 Excretion in humans Topic: 4.4 Keeping a fetus healthy ● **Unit 5 Reactivity** Topic 5.1 Reactivity and displacement reactions Topic 5.2 Using the reactivity series and displacement reactions Topic 5.3 Salts Topic 5.4 Other ways of making salts Topic 5.5 Rearranging atoms ● **Unit 6 Sound and space** Topic 6.1 Loudness and pitch of sound Topic 6.2 Interference of sound Topic 6.3 Formation of the Moon Topic 6.4 Nebulae Topic 6.5 Tectonics ● **Unit 7: Genes and inheritance** Topic 7.1: Chromosomes, genes and DNA Topic 7.2: Gametes and inheritance Topic 7.3 Variation Topic 7.4 Natural selection ● **Unit 8: Rates of reaction** Topic 8.1 Measuring the rate of reaction Topic 8.2: Surface area and rate of reaction Topic 8.3: Temperature and rate of reaction Topic 8.4 Concentration and the rate of reaction ● **Unit 9: Electricity** Topic 9.1: Parallel circuits Topic 9.2: Current and voltage in parallel circuits Topic 9.3 Resistance Topic 9.4 Practical circuits
Urdu	● مضمون نویسی ● تفہیم نگاری ● جملہ سازی ● ای میل (برقی نامہ نویسی)
Pakistan Studies	**Part A: History of Pakistan** Chap 1: The Decline of Mughal Empire Chap 2: The influence of Islam **Part B: Geography of Pakistan** Unit 1: The Natural Topography

Islamic Studies	Chapter 1: Major Themes of the Holy Quran ● Topic: Passage # 7,8,9,10. Chapter 3: The Life and Importance of the Holy Prophet (P.B.U.H) Topics: ● Early Life of Prophet(pbuh) ● Opposition and Persecution by the Quraish ● Miraaj ● First and Second Year After Hijra Chapter 5: Major Teachings of the Hadith of the Holy Prophet (pbuh) ● Topic:Hadith # 9,10,11,12 ● Chapter 8: Articles of Faith and Pillars of Islam Topics: ● Shahadah and Jihad

Pakistan International School, Azizyah Jeddah
Cambridge Curriculum Section (CCS)
(Academic Session 2026-2027)

Entrance Test Syllabus for admission in (Grade X - SCIENCE GROUP)

- ***Entrance Exam does not guarantee one's admission.***
- ***Students must submit the result of IGCSE (Grade -9) at the time of admission.***
- ***Admission will be granted after considering the submitted IGCSE results.***

Subject	Syllabus
Math	● **Chapter 1: Reviewing number concepts** ○ 1.1 Different types of numbers ○ 1.2 Multiples and factors ○ 1.3 Prime numbers ○ 1.4 Powers and roots ○ 1.5 Working with directed numbers ○ 1.6 Order of operations ○ 1.7 Rounding numbers ● **Chapter 2: Making sense of algebra** ○ 2.1 Using letters to represent unknown values ○ 2.2 Substitution ○ 2.3 Simplifying expressions ○ 2.4 Working with brackets ○ 2.5 Indices ● **Chapter 3: Lines, angles and shapes** ○ 3.1 Lines and angles ○ 3.2 Triangles ○ 3.3 Quadrilaterals ○ 3.4 Polygons ○ 3.5 Circles ○ 3.6 Construction ● **Chapter 4: Collecting, organising and displaying data** ○ 4.1 Collecting and classifying data ○ 4.2 Organising data ○ 4.3 Using charts to display data ● **Chapter 5: Fractions and standard form** ○ 5.1 Equivalent fractions

- 5.2 Operations on fractions
- 5.3 Percentages
- 5.4 Standard form
- 5.5 Your calculator and standard form
- 5.6 Estimation

- **Chapter 6: Equations and rearranging formulae**
  - 6.1 Further expansions of brackets
  - 6.2 Solving linear equations
  - 6.3 Factorising algebraic expressions
  - 6.4 Rearrangement of a formula
- **Chapter 7: Perimeter, area and volume**
  - 7.1 Perimeter and area in two dimensions
  - 7.2 Three-dimensional objects
  - 7.3 Surface areas and volumes of solids
- **Chapter 8: Introduction to probability**
  - 8.1 Basic probability
  - 8.2 Theoretical probability
  - 8.3 The probability that an event does not happen
  - 8.4 Possibility diagrams
  - 8.5 Combining independent and mutually exclusive events
- **Chapter 9: Sequences and sets**
  - 9.1 Sequences
  - 9.2 Rational and irrational numbers
  - 9.3 Sets
- **Chapter 10: Straight lines and quadratic equations**
  - 10.1 Straight lines
  - 10.2 Quadratic (and other) expressions
- **Chapter 11: Pythagoras' theorem and similar shapes**
  - 11.1 Pythagoras' theorem
  - 11.2 Understanding similar triangles
  - 11.3 Understanding similar shapes
  - 11.4 Understanding congruence
- **Chapter 12: Averages and measures of spread**
  - 12.1 Different types of average
  - 12.2 Making comparisons using averages and ranges
  - 12.3 Calculating averages and ranges for frequency data
  - 12.4 Calculating averages and ranges for grouped continuous data
  - 12.5 Percentiles and quartiles
  - 12.6 Box-and-whisker plots

Reference: :

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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 writing Report writing Descriptive Writing Narrative Writing Review Writing **Students should know the usage of compound and complex sentences in writing.** ***Reference: Success International English Skills for Cambridge IGCSE 5th Edition***
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: Biology for Cambridge IGCSE™ COURSEBOOK Mary Jones & Geoff Jones*** ***PHYSICS*** Chapter 1: Making measurements • Chapter 2: Describing motion • Chapter 3: Forces and motion • Chapter 4: Turning effects • Chapter 5: Forces and matter ***Reference: Physics for Cambridge IGCSE™ COURSEBOOK David Sang, Mike Follows & Sheila Tarpey*** ***Chemistry*** • Chapter No. 1: States of Matter • Chapter No. 2: Atomic Structure • Chapter No. 3: Chemical Bonding • Chapter No. 6: Electrochemistry

Pakistan International School, Azizyah Jeddah
Cambridge Curriculum Section (CCS)
(Academic Session 2026-2027)
Entrance Test Syllabus for admission in(Grade X - COMMERCE GROUP)

- ***Entrance Exam does not guarantee one's admission.***
- ***Students must submit the result of IGCSE (Grade -9) at the time of admission.***
- ***Admission will be granted after considering the submitted IGCSE results.***

Subject	Syllabus

Math	• **Chapter 1: Reviewing number concepts**
	  ○ 1.1 Different types of numbers
	  ○ 1.2 Multiples and factors
	  ○ 1.3 Prime numbers
	  ○ 1.4 Powers and roots
	  ○ 1.5 Working with directed numbers
	  ○ 1.6 Order of operations
	  ○ 1.7 Rounding numbers
	• **Chapter 2: Making sense of algebra**
	  ○ 2.1 Using letters to represent unknown values
	  ○ 2.2 Substitution
	  ○ 2.3 Simplifying expressions
	  ○ 2.4 Working with brackets
	  ○ 2.5 Indices
	• **Chapter 3: Lines, angles and shapes**
	  ○ 3.1 Lines and angles
	  ○ 3.2 Triangles
	  ○ 3.3 Quadrilaterals
	  ○ 3.4 Polygons
	  ○ 3.5 Circles
	  ○ 3.6 Construction
	• **Chapter 4: Collecting, organising and displaying data**
	  ○ 4.1 Collecting and classifying data
	  ○ 4.2 Organising data
	  ○ 4.3 Using charts to display data
	• **Chapter 5: Fractions and standard form**
	  ○ 5.1 Equivalent fractions
	  ○ 5.2 Operations on fractions
	  ○ 5.3 Percentages
	  ○ 5.4 Standard form
	  ○ 5.5 Your calculator and standard form
	  ○ 5.6 Estimation
	• **Chapter 6: Equations and rearranging formulae**
	  ○ 6.1 Further expansions of brackets
	  ○ 6.2 Solving linear equations
	  ○ 6.3 Factorising algebraic expressions
	  ○ 6.4 Rearrangement of a formula
	• **Chapter 7: Perimeter, area and volume**
	  ○ 7.1 Perimeter and area in two dimensions
	  ○ 7.2 Three-dimensional objects
	  ○ 7.3 Surface areas and volumes of solids
	• **Chapter 8: Introduction to probability**
	  ○ 8.1 Basic probability
	  ○ 8.2 Theoretical probability

	○ 8.3 The probability that an event does not happen ○ 8.4 Possibility diagrams ○ 8.5 Combining independent and mutually exclusive events ● **Chapter 9: Sequences and sets** ○ 9.1 Sequences ○ 9.2 Rational and irrational numbers ○ 9.3 Sets ● **Chapter 10: Straight lines and quadratic equations** ○ 10.1 Straight lines ○ 10.2 Quadratic (and other) expressions ● **Chapter 11: Pythagoras' theorem and similar shapes** ○ 11.1 Pythagoras' theorem ○ 11.2 Understanding similar triangles ○ 11.3 Understanding similar shapes ○ 11.4 Understanding congruence ● **Chapter 12: Averages and measures of spread** ○ 12.1 Different types of average ○ 12.2 Making comparisons using averages and ranges ○ 12.3 Calculating averages and ranges for frequency data ○ 12.4 Calculating averages and ranges for grouped continuous data ○ 12.5 Percentiles and quartiles ○ 12.6 Box-and-whisker plots ***Reference: :*** ***Cambridge IGCSE® Mathematics Core and Extended Coursebook:****Publication Details* ● Title: Cambridge IGCSE® Mathematics Core and Extended Coursebook ● Edition: Second edition ● Authors: Karen Morrison and Nick Hamshaw ISBN 978-1-108-43718-9 Paperback
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 writing Report writing Descriptive Writing Narrative Writing Review Writing **Students should know the usage of compound and complex sentences in writing.** ***Reference: Success International English Skills for Cambridge IGCSE 5th Edition***

Accounting	Chapter 1: Introduction to accounting Chapter 2: Double entry bookkeeping - Part A Chapter 3: The trial balance Chapter 4: Double entry bookkeeping - Part B Chapter 5: Petty cash books Chapter 6: Business documents Chapter 7: Books of prime entry ***Resource:*** *Any IGCSE Cambridge endorsed updated Accounting (0452) Textbook.*
Business Studies	Chapter 1: Business activity Chapter 2: Economic sectors Chapter 3: Enterprise, business growth and size Chapter 4: Types of business organizations Chapter 5: Business and stakeholders objectives Chapter 6: Human resource management Chapter 7: Organization and management Chapter 8: Methods of communication Chapter 9: Motivating employees **Resource:** *Any IGCSE Cambridge endorsed updated Business (0264) Textbook.*
Economics	Chapter 1: The nature of the basic economic problem Chapter 2: Factors of Production Chapter 3: Opportunity Cost Chapter 4: Production Possibility Curve diagrams Chapter 5: The role of markets in allocating resources Chapter 6: Demand Chapter 7: Supply Chapter 8: Price determination Chapter 9: Price Changes Chapter 10: Price elasticity of demand (PED) Chapter 11: Price elasticity of supply (PES) Chapter 12: Market economic system Chapter 13: Market Failure Chapter 14: Mixed economic system ***Resource:*** *Any IGCSE Cambridge endorsed updated Economics (0455) Textbook.*

Pakistan International School, Azizyah Jeddah
Cambridge Curriculum Section (CCS)
(Academic Session 2026-2027)

Entrance Test Syllabus for admission in (Grade X – INFORMATION AND TECHNOLOGY GROUP)

- ***Entrance Exam does not guarantee one's admission.***
- ***Students must submit the result of IGCSE (Grade -9) at the time of admission.***
- ***Admission will be granted after considering the submitted IGCSE results.***

Subject	Syllabus

Math	• **Chapter 1: Reviewing number concepts**
	  ○ 1.1 Different types of numbers
	  ○ 1.2 Multiples and factors
	  ○ 1.3 Prime numbers
	  ○ 1.4 Powers and roots
	  ○ 1.5 Working with directed numbers
	  ○ 1.6 Order of operations
	  ○ 1.7 Rounding numbers
	• **Chapter 2: Making sense of algebra**
	  ○ 2.1 Using letters to represent unknown values
	  ○ 2.2 Substitution
	  ○ 2.3 Simplifying expressions
	  ○ 2.4 Working with brackets
	  ○ 2.5 Indices
	• **Chapter 3: Lines, angles and shapes**
	  ○ 3.1 Lines and angles
	  ○ 3.2 Triangles
	  ○ 3.3 Quadrilaterals
	  ○ 3.4 Polygons
	  ○ 3.5 Circles
	  ○ 3.6 Construction
	• **Chapter 4: Collecting, organising and displaying data**
	  ○ 4.1 Collecting and classifying data
	  ○ 4.2 Organising data
	  ○ 4.3 Using charts to display data
	• **Chapter 5: Fractions and standard form**
	  ○ 5.1 Equivalent fractions
	  ○ 5.2 Operations on fractions
	  ○ 5.3 Percentages
	  ○ 5.4 Standard form
	  ○ 5.5 Your calculator and standard form
	  ○ 5.6 Estimation
	• **Chapter 6: Equations and rearranging formulae**
	  ○ 6.1 Further expansions of brackets
	  ○ 6.2 Solving linear equations
	  ○ 6.3 Factorising algebraic expressions
	  ○ 6.4 Rearrangement of a formula
	• **Chapter 7: Perimeter, area and volume**
	  ○ 7.1 Perimeter and area in two dimensions
	  ○ 7.2 Three-dimensional objects
	  ○ 7.3 Surface areas and volumes of solids
	• **Chapter 8: Introduction to probability**
	  ○ 8.1 Basic probability

	○ 8.2 Theoretical probability ○ 8.3 The probability that an event does not happen ○ 8.4 Possibility diagrams ○ 8.5 Combining independent and mutually exclusive events ● **Chapter 9: Sequences and sets** ○ 9.1 Sequences ○ 9.2 Rational and irrational numbers ○ 9.3 Sets ● **Chapter 10: Straight lines and quadratic equations** ○ 10.1 Straight lines ○ 10.2 Quadratic (and other) expressions ● **Chapter 11: Pythagoras' theorem and similar shapes** ○ 11.1 Pythagoras' theorem ○ 11.2 Understanding similar triangles ○ 11.3 Understanding similar shapes ○ 11.4 Understanding congruence ● **Chapter 12: Averages and measures of spread** ○ 12.1 Different types of average ○ 12.2 Making comparisons using averages and ranges ○ 12.3 Calculating averages and ranges for frequency data ○ 12.4 Calculating averages and ranges for grouped continuous data ○ 12.5 Percentiles and quartiles ○ 12.6 Box-and-whisker plots ***Reference: :*** ***Cambridge IGCSE® Mathematics Core and Extended Course book:*** *Publication Details* ● Title: Cambridge IGCSE® Mathematics Core and Extended Coursebook ● Edition: Second edition ● Authors: Karen Morrison and Nick Hamshaw ISBN 978-1-108-43718-9 Paperback
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 writing Report writing Descriptive Writing Narrative Writing Review Writing **Students should know the usage of compound and complex sentences in writing.** ***Reference: Success International English Skills for Cambridge IGCSE 5th Edition***

Computer Science	Topics: 1. Number System 2. Conversion from Binary Number System to Denary, Hexadecimal Number System , from Denary Number System to Binary, Hexadecimal Number System and from Hexadecimal to Binary, Denary Number System. 3. Data Transmission Modes 4. Types of Data Transmission 5. Input & Output Devices (Basic Devices) 6. Types of Software (System Software , Application Software) Book References: Any IGCSE Computer Science Cambridge Approved Book
Physics	***PHYSICS*** Chapter 1: Making measurements Chapter 2: Describing motion Chapter 3: Forces and motion Chapter 4: Turning effects Chapter 5: Forces and matter ***Reference: Physics for Cambridge IGCSE™ COURSEBOOK David Sang, Mike Follows & Sheila Tarpey***
Chemistry	Chapter No. 1: States of Matter Chapter No. 2: Atomic Structure Chapter No. 3: Chemical Bonding Chapter No. 6: Electrochemistry

Pakistan International School, Azizyah Jeddah
Cambridge Curriculum Section (CCS)
(Academic Session 2026-2027)

Entrance Test Syllabus for admission in (AS Level - SCIENCE GROUP)

- ***Entrance Exam does not guarantee one's admission.***
- ***Students must submit the result of IGCSE (Grade -10) at the time of admission.***
- ***Admission will be granted after considering the submitted IGCSE results.***

Subject	Syllabus
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 • Chapter 6: Plant nutrition • Chapter 7: Human nutrition • Chapter 8: Transport in plants • Chapter 9: Transport in animals • Chapter 10: Diseases and immunity • Chapter 11: Respiration and gas exchange • Chapter 12: Coordination and response • Chapter 13: Excretion and homeostasis • Chapter 14: Reproduction in plants • Chapter 15: Reproduction in humans • Chapter 16: Chromosomes, genes and proteins • Chapter 17: Variation and selection • Chapter 18: Organisms and their environment • Chapter 19: Human influences on ecosystems • Chapter 20: Biotechnology and genetic modification ***Reference: Biology for Cambridge IGCSE™ COURSEBOOK Mary Jones & Geoff Jones*** **Physics** ***Chapter 1 till 25*** Chapter 1 Making measurements Chapter 2 Describing motion Chapter 3 Forces and motion Chapter 4 Turning effects Chapter 5 Forces and matter Chapter 6 Energy stores and transfers Chapter 7 Energy resources Chapter 8 Work and power Chapter 9 The kinetic particle model of energy Chapter 10 Thermal properties of matter Chapter 11 Thermal energy transfers Chapter 12 Sound Chapter 13 Light Chapter 14 Properties of waves Chapter 15 The electromagnetic spectrum Chapter 16 Magnetism Chapter 17 Static Electricity

	Chapter 18 Electrical quantities Chapter 19 Electrical Circuits Chapter 20 Electromagnetic forces Chapter 21 Electromagnetic Induction Chapter 22 The nuclear atom Chapter 23 Radioactivity Chapter 24 Earth and the solar system Chapter 25 Stars and the universes **Reference: Physics for Cambridge IGCSE™ COURSEBOOK David Sang, Mike Follows & Sheila Tarpey** **Chemistry** Chapter No. 1: States of Matter Chapter No. 2: Atomic Structure Chapter No. 3: Chemical Bonding Chapter No. 6: Electrochemistry Chapter No. 18: Introduction to Organic Chemistry Chapter No. 19: Reaction of Organic Compounds

Pakistan International School, Azizyah Jeddah
Cambridge Curriculum Section (CCS)
(Academic Session 2026-2027)
Entrance Test Syllabus for admission in (AS Level- COMMERCE GROUP)

- ***Entrance Exam does not guarantee one's admission.***
- ***Students must submit the result of IGCSE (Grade -10) at the time of admission.***
- ***Admission will be granted after considering the submitted IGCSE results.***

Subject	Syllabus
Accounting	**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 books **Chapter 6:** Business documents **Chapter 7:** Books of prime entry **Chapter 8:** Financial statements – Part A **Chapter 9:** Financial statements – Part B **Chapter 10**: Accounting rules **Chapter 11:** Other payables and other receivables **Chapter 12:** Accounting for depreciation and disposal of non-current assets **Chapter 13:** Irrecoverable debts and allowance for irrecoverable debts **Chapter 14:** Bank reconciliation statements **Chapter 15:** Journal entries and correction of errors **Chapter 16:** Control accounts **Chapter 17:** Incomplete records **Chapter 18:** Accounts of non-trading organisations (clubs and societies) **Chapter 19:** Partnerships **Chapter 20:** Manufacturing accounts **Chapter 21:** Limited companies

	Chapter 22: Analysis and interpretation **Chapter 23:** Technology and sustainability ***Resource:*** *Any IGCSE Cambridge endorsed updated Accounting (0452) Textbook.*
Business Studies	**Section 1: Understanding business activity:** Business activity, economic sectors, enterprise, business growth and size, types of business organization, business and stakeholder objectives. **Section 2: People in Business:** Human resource management, methods of communication, motivating employees, organization and management, recruitment and selection, internal and external communications. **Section 3: Marketing**: Marketing and market, market research, marketing mix (product, price, place and promotion), Marketing strategy and legal controls. **Section 4: Operations management:** Production of goods and services, costs, scale of production and break even analysis, quality of goods and services, location decisions. **Section 5: Financial information and decision**: Business finance, cash flow forecasting, statement of profit or loss, statement of financial position, and analysis of accounts. **Section 6: External influences on business activity:** Economic issues, Business and the international economy, environmental and ethical issues. **Resource:** *Any IGCSE Cambridge endorsed updated Business (0264) Textbook.*
Economics	**Section 1: The basic economic problem:** The nature of economic problem, Factors of production, opportunity cost and production possibility curve diagrams. **Section 2: The allocation of resources:** The role of markets, Demand and supply, price determination and price changes, price elasticity of demand, price elasticity of supply, market economic systems, market failure and mixed economic systems. **Section 3: Microeconomic Decision makers**: Money and banking, households, workers, firms, firms and production, firms' costs, revenue and objectives and types of markets. **Section 4: Government and the macroeconomy**: Government macroeconomic intervention, fiscal policy, monetary policy, supply side policy, economic growth, employment and unemployment and Inflation. **Section 5: Economic development**: Living standards, poverty, population and differences in economic development between countries. **Section 6: International trade and globalisation:** Specialisation and free trade, globalisation and trade restrictions, foreign exchange rates and current account of the balance of payments. ***Resource:*** *Any IGCSE Cambridge endorsed updated Economics (0455) Textbook.*

Pakistan International School, Azizyah Jeddah
Cambridge Curriculum Section (CCS)
(Academic Session 2026-2027)

Entrance Test Syllabus for admission in (AS Level – Information and Technology GROUP)

- ***Entrance Exam does not guarantee one's admission.***
- ***Students must submit the result of IGCSE (Grade -10) at the time of admission.***
- ***Admission will be granted after considering the submitted IGCSE results.***

Subject	Syllabus

Math	• **Chapter 1: Reviewing number concepts**
	  ○ 1.1 Different types of numbers
	  ○ 1.2 Multiples and factors
	  ○ 1.3 Prime numbers
	  ○ 1.4 Powers and roots
	  ○ 1.5 Working with directed numbers
	  ○ 1.6 Order of operations
	  ○ 1.7 Rounding numbers
	• **Chapter 2: Making sense of algebra**
	  ○ 2.1 Using letters to represent unknown values
	  ○ 2.2 Substitution
	  ○ 2.3 Simplifying expressions
	  ○ 2.4 Working with brackets
	  ○ 2.5 Indices
	• **Chapter 3: Lines, angles and shapes**
	  ○ 3.1 Lines and angles
	  ○ 3.2 Triangles
	  ○ 3.3 Quadrilaterals
	  ○ 3.4 Polygons
	  ○ 3.5 Circles
	  ○ 3.6 Construction
	• **Chapter 4: Collecting, organising and displaying data**
	  ○ 4.1 Collecting and classifying data
	  ○ 4.2 Organising data
	  ○ 4.3 Using charts to display data
	
	Unit 2
	• **Chapter 5: Fractions and standard form**
	  ○ 5.1 Equivalent fractions
	  ○ 5.2 Operations on fractions
	  ○ 5.3 Percentages
	  ○ 5.4 Standard form
	  ○ 5.5 Your calculator and standard form
	  ○ 5.6 Estimation
	• **Chapter 6: Equations and rearranging formulae**
	  ○ 6.1 Further expansions of brackets
	  ○ 6.2 Solving linear equations

- 6.3 Factorising algebraic expressions
- 6.4 Rearrangement of a formula

- **Chapter 7: Perimeter, area and volume**
  - 7.1 Perimeter and area in two dimensions
  - 7.2 Three-dimensional objects
  - 7.3 Surface areas and volumes of solids
- **Chapter 8: Introduction to probability**
  - 8.1 Basic probability
  - 8.2 Theoretical probability
  - 8.3 The probability that an event does not happen
  - 8.4 Possibility diagrams
  - 8.5 Combining independent and mutually exclusive events

Unit 3

- **Chapter 9: Sequences and sets**
  - 9.1 Sequences
  - 9.2 Rational and irrational numbers
  - 9.3 Sets
- **Chapter 10: Straight lines and quadratic equations**
  - 10.1 Straight lines
  - 10.2 Quadratic (and other) expressions
- **Chapter 11: Pythagoras' theorem and similar shapes**
  - 11.1 Pythagoras' theorem
  - 11.2 Understanding similar triangles
  - 11.3 Understanding similar shapes
  - 11.4 Understanding congruence
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  - 12.1 Different types of average
  - 12.2 Making comparisons using averages and ranges
  - 12.3 Calculating averages and ranges for frequency data
  - 12.4 Calculating averages and ranges for grouped continuous data
  - 12.5 Percentiles and quartiles
  - 12.6 Box-and-whisker plots

Unit 4

- **Chapter 13: Understanding measurement**
  - 13.1 Understanding units
  - 13.2 Time
  - 13.3 Upper and lower bounds
  - 13.4 Conversion graphs
  - 13.5 More money
- **Chapter 14: Further solving of equations and inequalities**
  - 14.1 Simultaneous linear equations
  - 14.2 Linear inequalities
  - 14.3 Regions in a plane
  - 14.4 Linear programming
  - 14.5 Completing the square
  - 14.6 Quadratic formula

- 14.7 Factorising quadratics where the coefficient of x^{2} is not 1
- 14.8 Algebraic fractions

- **Chapter 15: Scale drawings, bearings and trigonometry**
  - 15.1 Scale drawings
  - 15.2 Bearings
  - 15.3 Understanding the tangent, cosine and sine ratios
  - 15.4 Solving problems using trigonometry
  - 15.5 Sines, cosines and tangents of angles more than 90°
  - 15.6 The sine and cosine rules
  - 15.7 Area of a triangle
  - 15.8 Trigonometry in three dimensions
- **Chapter 16: Scatter diagrams and correlation**
  - 16.1 Introduction to bivariate data

Unit 5

- **Chapter 17: Managing money**
  - 17.1 Earning money
  - 17.2 Borrowing and investing money
  - 17.3 Buying and selling
- **Chapter 18: Curved graphs**
  - 18.1 Drawing quadratic graphs (the parabola)
  - 18.2 Drawing reciprocal graphs (the hyperbola)
  - 18.3 Using graphs to solve quadratic equations
  - 18.4 Using graphs to solve simultaneous linear and non-linear equations
  - 18.5 Other non-linear graphs
  - 18.6 Finding the gradient of a curve
  - 18.7 Derived functions
- **Chapter 19: Symmetry**
  - 19.1 Symmetry in two dimensions
  - 19.2 Symmetry in three dimensions
  - 19.3 Symmetry properties of circles
  - 19.4 Angle relationships in circles
- **Chapter 20: Histograms and frequency distribution diagrams**
  - 20.1 Histograms
  - 20.2 Cumulative frequency

Unit 6

- **Chapter 21: Ratio, rate and proportion**
  - 21.1 Working with ratio
  - 21.2 Ratio and scale
  - 21.3 Rates
  - 21.4 Kinematic graphs
  - 21.5 Proportion
  - 21.6 Direct and inverse proportion in algebraic terms
  - 21.7 Increasing and decreasing amounts by a given ratio
- **Chapter 22: More equations, formulae and functions**
  - 22.1 Setting up equations to solve problems
  - 22.2 Using and transforming formulae

	○ 22.3 Functions and function notation ● **Chapter 23: Vectors and transformations** ○ 23.1 Simple plane transformations ○ 23.2 Vectors ○ 23.3 Further transformations ● **Chapter 24: Probability using tree diagrams and Venn diagrams** ○ 24.1 Using tree diagrams to show outcomes ○ 24.2 Calculating probability from tree diagrams ○ 24.3 Calculating probability from Venn diagrams ○ 24.4 Conditional probability ***Reference: :*** ***Cambridge IGCSE® Mathematics Core and Extended Coursebook:*** *Publication Details* ● Title: Cambridge IGCSE® Mathematics Core and Extended Coursebook ● Edition: Second edition ● Authors: Karen Morrison and Nick Hamshaw ISBN 978-1-108-43718-9 Paperback
Computer Science	1. Data Representation 2. Conversion from Binary Number System to Denary,Hexadecimal Number System , from Denary Number System to Binary,Hexadecimal Number System and from Hexadecimal to Binary, Denary Number System. 3. Addition of binary numbers 4. Data Transmission Modes 5. Types of Data Transmission 6. Hardware and Software 7. Algorithm Design and problem solving 8. Databases 9. Logic Gates Book References: Any IGCSE Computer Science Cambridge Approved Book
Physics	Chapter 1 till 25 Chapter 1 Making measurements Chapter 2 Describing motion Chapter 3 Forces and motion Chapter 4 Turning effects Chapter 5 Forces and matter Chapter 6 Energy stores and transfers Chapter 7 Energy resources Chapter 8 Work and power Chapter 9 The kinetic particle model of energy Chapter 10 Thermal properties of matter Chapter 11 Thermal energy transfers Chapter 12 Sound Chapter 13 Light Chapter 14 Properties of waves Chapter 15 The electromagnetic spectrum Chapter 16 Magnetism Chapter 17 Static Electricity Chapter 18 Electrical quantities Chapter 19 Electrical Circuits Chapter 20 Electromagnetic forces

	Chapter 21 Electromagnetic Induction Chapter 22 The nuclear atom Chapter 23 Radioactivity Chapter 24 Earth and the solar system Chapter 25 Stars and the universes ***Reference: Physics for Cambridge IGCSE™ COURSEBOOK David Sang, Mike Follows & Sheila Tarpey***

Pakistan International School, Azizyah Jeddah
Cambridge Curriculum Section (CCS)
(Academic Session 2026-2027)

Entrance Test Syllabus for admission in (AS Level – Pre-Engineering GROUP)

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Subject	Syllabus

Math	• **Chapter 1: Reviewing number concepts**
	  ○ 1.1 Different types of numbers
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	  ○ 1.5 Working with directed numbers
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	  ○ 2.1 Using letters to represent unknown values
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	  ○ 4.2 Organising data
	  ○ 4.3 Using charts to display data
	Unit 2
	• **Chapter 5: Fractions and standard form**
	  ○ 5.1 Equivalent fractions

- 5.2 Operations on fractions
- 5.3 Percentages
- 5.4 Standard form
- 5.5 Your calculator and standard form
- 5.6 Estimation

- **Chapter 6: Equations and rearranging formulae**
  - 6.1 Further expansions of brackets
  - 6.2 Solving linear equations
  - 6.3 Factorising algebraic expressions
  - 6.4 Rearrangement of a formula
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  - 7.1 Perimeter and area in two dimensions
  - 7.2 Three-dimensional objects
  - 7.3 Surface areas and volumes of solids
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  - 8.1 Basic probability
  - 8.2 Theoretical probability
  - 8.3 The probability that an event does not happen
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  - 8.5 Combining independent and mutually exclusive events

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- **Chapter 9: Sequences and sets**
  - 9.1 Sequences
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- **Chapter 14: Further solving of equations and inequalities**
  - 14.1 Simultaneous linear equations
  - 14.2 Linear inequalities
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  - 15.4 Solving problems using trigonometry
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  - 15.6 The sine and cosine rules
  - 15.7 Area of a triangle
  - 15.8 Trigonometry in three dimensions
- **Chapter 16: Scatter diagrams and correlation**
  - 16.1 Introduction to bivariate data

Unit 5

- **Chapter 17: Managing money**
  - 17.1 Earning money
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  - 17.3 Buying and selling
- **Chapter 18: Curved graphs**
  - 18.1 Drawing quadratic graphs (the parabola)
  - 18.2 Drawing reciprocal graphs (the hyperbola)
  - 18.3 Using graphs to solve quadratic equations
  - 18.4 Using graphs to solve simultaneous linear and non-linear equations
  - 18.5 Other non-linear graphs
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  - 19.4 Angle relationships in circles
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  - 20.1 Histograms
  - 20.2 Cumulative frequency

Unit 6

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  - 21.2 Ratio and scale

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Chemistry	Chapter No. 1: States of Matter Chapter No. 2: Atomic Structure Chapter No. 3: Chemical Bonding Chapter No. 6: Electrochemistry Chapter No. 18: Introduction to Organic Chemistry Chapter No. 19: Reaction of Organic Compounds
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	Chapter 16 Magnetism Chapter 17 Static Electricity Chapter 18 Electrical quantities Chapter 19 Electrical Circuits Chapter 20 Electromagnetic forces Chapter 21 Electromagnetic Induction Chapter 22 The nuclear atom Chapter 23 Radioactivity Chapter 24 Earth and the solar system Chapter 25 Stars and the universes ***Reference: Physics for Cambridge IGCSE™ COURSEBOOK David Sang, Mike Follows & Sheila Tarpey***