

HITEC School & College for Boys
Cambridge Section
Syllabus for Admission Test 2024-25

Foundation (Grade—6)

Science	General Science for Class V Single National Curriculum
English	1. Paragraph Writing 2. Articles (use of a, an, the) 3. Prepositions (correct use) 4. Vocabulary: (a) Antonyms (b) Homophones (c) Synonyms (d) Words/meanings 5. Conversion (Negative and Interrogative sentences) 6. Forms of Irregular Verbs 7. Tenses
Math	Factors and multiples, Prime and Composite number, Prime Factorization, HCF, LCM, Integers (Addition / Subtraction/ Multiplication/ Division), Rational Number (Order, Addition, Subtraction, Multiplication, Division), Perimeter and Area of Simple Geometric Figures (Triangle, Rectangle, Circle).
Urdu	پیراگراف تحریر کرنا، واحد جمع، متضاد، مترادف، الفاظ کا جملوں میں استعمال

Pre-O Level 1 (Grade—7)

Science	New Lower Secondary Science 1 Work Book: Chapter No. 2, 3, 4, 5, 17, 18, 21, 22, 23
English	1. Paragraph Writing/Essay Writing 2. Tenses 3. Parts of Speech 4. Comprehension Passage 5. Articles (use) 6. Prepositions (use). 7. Form of verbs 8. Degrees of adjectives 9. Letter Writing
Math	Estimation and Approximation, Simple Algebraic equations, Construction of algebraic formulae, Fundamental Algebra, Decimal Fraction, Perimeter and Area of Triangle, Rectangle, Circle, Trapezium and Parallelogram. Volume and surface area of Cylinder, Sphere and Pyramids.
Urdu	مضمون نویسی، واحد جمع، متضاد، مترادف، محاورات و الفاظ کا جملوں میں استعمال

Pre-O Level 2 (Grade—8)

Chemistry	New Lower Secondary Science 2 : Chapter No. 1 to 7
Physics	New Lower Secondary Science 2 Work Book: Chapter No. 11 to 18
Biology	New Lower Secondary Science 2: Chapter No. 9, 10, 20, 21, 22
Computer	Information Technology, Technology Abuse, Computer Hacking, Computer Virus, , Computer Languages, Language Translators, source code, object code. Database , Internet, Artificial Intelligence, Virtual Reality, Flow Charts and its Symbols, Generations of computer, Types and features of different types of computer, Operating system, Verification, Validation, Automation, Computer Terms, Storage devices, Input/output devices, Internal, Computer terms
English	1. Comprehension Passage 2. Essay Writing 3. Parts of Speech 4. Change of Voice 5. Narration 6. Homonyms 7. Tenses 8. Prepositions 9. Punctuation (use)
Math	Book – D1 Arithmetic : Number Operations, Squares and Square Roots, Arithmetic Problems, Simple Financial Transactions, Profit and Loss, Simple Interest, Ratio, Proportions and Percentages, Scales and Simple Map Problems, Estimation, Significant Figures, Decimal Places and Standard Form Algebra and Graphs: Evaluation and Change of Subjects of a Formula, Algebra Symbols, Indices, Expansion and Factorization of Algebraic Expressions, Simple Algebraic Fractions, Simple Equations and Identities, Solutions of Simultaneous Linear Equations and Quadratic Equations
Urdu	مضمون، واحد جمع، متضاد، مترادف، محاورات و الفاظ کا جملوں میں استعمال

HITEC School & College for Boys
Cambridge Section
Syllabus for Admission Test 2024-25
O Level 1

Chemistry	Topic 1: Particulate Nature of Matter, Diffusion Topic 2: Experimental Techniques Topic 3: Atomic Structure / Chemical Bonding
Physics	Ch.No. 01 Measurement Ch.No. 02 Kinematics Ch.No. 03 Forces Ch.No. 04 Mass, Weight And Density Ch.No. 05 Turning Effect Of Forces Ch.No. 06 Pressure Ch.No. 08 Transfer of heat Ch.No. 09 Temperature Ch.No. 10 Gas Laws
Biology	Topic # 02 Cells Topic # 03 Movement of Substances Topic # 04 Biomolecules Topic # 05 Enzymes
Computer	Computer hardware (Input & Output devices), Data storage (primary memory and secondary memory), Artificial Intelligence, Robotics, types of software, types of programming language
English	1. Essay Writing 2. Letter 3. Report 4. Article 5. Voices 6. Correction of mistakes 7. Comprehension Passage
Maths	Factors and Multiples. Estimation and approximation, ratio and proportion. Percentage, Statistics, Graphs. Expansion and factorization of algebraic expression. Simultaneous equation, algebraic manipulation, Angle properties of polygons. Sets, Probability, functions
Urdu	مضمون ، واحد جمع، متضاد، مترادف، محاورات و الفاظ کا جملوں میں استعمال

- **Note:** In physics, chemistry and biology papers MCQs and theory questions will be given from past year papers (Topical) on the given topics/chapters.