

# HITEC CAMBRIDGE SCHOOL

## Syllabus for Admission Test 2017- 18

### Foundation

<b>Science</b>	Second Edition New Oxford Primary Science (Nicholas Horsburgh) for Class V
<b>English</b>	1. Paragraph Writing 2. Articles (use of <b>a, an, the</b> ) 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
<b>Math</b>	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).
<b>Urdu</b>	پیراگراف تحریر کرنا، واحد جمع، متضاد، مترادف، الفاظ کا جملوں میں استعمال

### Pre-O Level 1

<b>Science</b>	<b>For Secondary classes Science 1 Fact file (David Coppock)</b> <b>Ch. No. 02</b> Life and Living things <b>Ch. No. 05</b> Simple Chemical Reactions <b>Ch. No. 06</b> Electrical Circuits <b>Ch. No. 07</b> The Environment <b>Ch. No. 09</b> Forces and their Effects <b>Ch. No. 12</b> The Solar System Acids and Alkalis, Energy resources, Particle, Variation and classification, Solution, The Solar system <b>New Lower Secondary Science 1 Work Book: Chapter No. 2, 3, 4, 5, 17, 18, 21, 22, 23</b>
<b>English</b>	1. Paragraph Writing/Essay Writing 2. Tenses 3. Parts of Speech 4. Comprehension Passage 5. Articles (use) 6. Prepositions (use)
<b>Math</b>	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.
<b>Urdu</b>	مضمون نویسی، واحد جمع، متضاد، مترادف، محاورات و الفاظ کا جملوں میں استعمال

### Pre-O Level 2

<b>Chemistry</b>	<b>For Secondary classes Science 2 Fact file (David Coppock):</b> <b>Ch. No. 01</b> Food and digestion <b>Ch. No. 02</b> Atoms and Elements <b>Ch. No. 03</b> Heating and cooling <b>Ch. No. 05</b> Compounds and mixtures <b>New Lower Secondary Science 2 : Chapter No. 1 to 7</b>
<b>Physics</b>	<b>For Secondary classes Science 2 Fact file (David Coppock)</b> <b>Ch. No. 06</b> Magnets and electromagnets <b>Ch. No. 09</b> Light <b>Ch. No. 12</b> Sound and Hearing <b>New Lower Secondary Science 2 Work Book: Chapter No. 11 to 18</b>
<b>Biology</b>	<b>For Secondary classes Science 2 Fact file (David Coppock): Chapter No. 1 and 4</b> <b>New Lower Secondary Science 2: Chapter No. 9, 10, 20, 21, 22</b>
<b>Computer</b>	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
<b>English</b>	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)
<b>Math</b>	<b>Book – D1</b> <b>Arithmetic :</b> 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 <b>Algebra and Graphs:</b> 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
<b>Urdu</b>	مضمون ، خطوط نویسی، محاورات کا جملوں میں استعمال، تفہیم نثر