

# Pre-Nurture & Career Foundation

[For English Medium Students Only]

# Study Material Syllabus for CLASS - VIII CBSE

## ESET-F1

Foundation Biology-1	Crop Production and Management, Microorganisms: Friend and Foe, Conservation of Plants and Animals
Foundation Physics-1	Force and Pressure, Friction, Sound
Foundation Chemistry-1	Synthetic Fibres and Plastics, Metals and Non-metals
Foundation Mathematics-1	Rational Numbers, Squares and Square Roots, Cubes and Cube Roots, Exponents and Powers
Foundation Mathematics-2	Linear Equations In One Variable, Understanding Quadrilaterals, Introduction to Graphs and Data Handling, Playing with Numbers.
Foundation SST-1	History: How, When and Where, From Trade to Territory, Ruling the Countryside. Civics: The Indian Constitution, Understanding Secularism, Parliamentary Government. Geography: Resources, Natural Resources: Land, Soil, Water, Natural Vegetation and Wildlife, Minerals and Power Resources.
Foundation SST-2	History: Tribals, Dikus and The Vision of a Golden Age, When People Rebel, Colonialism and The City. Civics: Understanding Laws, Judiciary
Foundation English-1	Section A (Grammar): Grammar recap, Nouns and Pronouns, Non-finite form of Verbs, Tenses, Reported Speech, Active and Passive Voice, Subject-Verb Agreement, Prepositions Section B (Vocabulary): Synonyms and Antonyms, Phrasal Verbs. Section C (Writing): Diary Entry, Notice Writing, Letter Writing, E-mail Writing. Section D (Verbal Ability): Error Spotting

## ESET- A TARGET:: Science/Maths/English Olympiads

Advance Biology	Cell, Microorganisms, Conservation of Plants & Animals, Crop Production & Management, Adolescence & Reproduction.
Advance Physics	Force & Friction, Thrust & Pressure, Waves and Sound, Electricity, Chemical Effects of Current, Light, Universe
Advance Chemistry	General Chemistry, Man-made Materials, Metals and Non-metals, Fuels and Combustion, Pollution of Water and Air.
Advance Mathematics-1	Number System, Squares and Square roots, Cubes and Cube Roots, Exponents and Powers, Algebraic Expressions, Identities and Factorization, Linear Equations in One Variable, Lines and Angles, Triangles, Quadrilaterals, Circles, Mensuration, Visualising Solid Shapes, Data Handling.
Advance Mathematics-2	Every Day Mathematics: Percentage, Profit, Loss and Discount, Partnership, Mixtures and Alligations, Simple and Compound Interest, Installments, Ratio and Proportion, Time, Speed and Distance, Unitary Method, Time and Work, Pipes and Cisterns, Problem on Ages.
Mental Ability	Verbal: Blood Relation, Coding & Decoding, Logical Venn Diagram, Inserting The Missing Character, Number, Ranking and Time Sequence Test, Alpha-Numeric Sequence Puzzle, Alphabet Test & Logical Sequence of words, Series, Analogy & Classification, Direction Sense Test, Mathematical Operations, Sitting Arrangement, Arithmetical reasoning. Non Verbal: Series, Analytical Reasoning, Mirror and Water Images, Spotting Out the Embedded Figure, Figure Matrix, Figure Formation, Construction of Squares & Grouping of Identical Figures, Paper Folding & Paper Cutting, Dice and Cube, Dot Situation, Analogy & Classification, Completion of Incomplete Pattern.
Advance English	Pronouns, Adjectives, Uses of Tenses, Question tags, Conditionals, Reported Speech, Collocations, Phrasal Verbs, Idioms and Proverbs, Homonyms and Homophones, Leisure Time-Vocabulary, Comprehension, Sequence Stories, Events and Snippets, Nouns and Pronouns, Verbs and Adverbs, Prepositions, Conjunctions, Determiners, Passive Voice, Reported Speech, Tenses, Word Power Synonyms and Antonyms, Spellings, Proverbs, Idioms and Sentence Sequencing, Analogies, Error Spotting, Sample Papers.

## ESET-E1 TARGET:: Foundation IJSO (Junior Science Olympiad)

Excellent Biology	Food & Nutrition, Respiratory System, Transportation in Plants & Animals, Excretory System, Control and Coordination, Health & Diseases, Natural Resources.
Excellent Physics	Motion, Gravitation, Work, Energy, Power, Heat, Magnetic Effects of Current
Excellent Chemistry	Study of Acids, Bases and Salts, States of Matter, Separation Techniques, Structure of Atom, Hydrogen, Oxygen and Nitrogen, The Periodic Table, Rates of Chemical Reactions, Practical Chemistry

## TARGET:: NMTC ROUND - 1

Excellent Mathematics - 1	Basic Number Operations, Pattern Detection Ratio & Percentage, Clock, Time & Distance, Indices, Algebra, Geometry, Logical Arguments, Number Theory, Data Handling
---------------------------	--

## ESET-F2

Foundation Biology-2	Cell, Reproduction in Animals, Reaching the Age of Adolescence
Foundation Physics-2	Chemical Effects of Electric Current, Some Natural Phenomena, Light, Universe
Foundation Chemistry-2	Coal and Petroleum, Combustion and Flame, Pollution of Air and Water
Foundation Mathematics-3	Algebraic Expressions, Identities and Factorization, Practical Geometry, Visualizing Solid Shapes
Foundation Mathematics-4	Mensuration, Direct and Inverse Proportion, Comparing Quantities
Foundation SST-3	History: Weavers, Iron Smelters and Factory Owners, Civilising the "native", Educating the Nation, Women, Caste and Reform. Civics: Understanding Our Criminal Justice System, Understanding Marginalisation, Confronting Marginalisation. Geography: Agriculture, Industries.
Foundation SST-4	History: The changing World of Visual Arts, The Making of the National Movement: 1870-1947, India after Independence. Civics: Public Facilities, Law and Social Justice. Geography: Human Resources
Foundation English-2	Section A (Grammar): Conjunctions, Sentences, Adverbs, Phrases and Clauses, Determiners, Modals. Section B (Vocabulary): Best Word Vocabulary, Idioms & Phrases. Section C (Writing): Message Writing, Story Writing, Article Writing, Speech Writing. Section D Integrated Grammar Exercise): Gap Filling

## ESET-E2\*TARGET:: NMTC Final Round

Excellent Mathematics -2	Same Topics as in Round - 1
--------------------------	-----------------------------

\*Module will be dispatched to NMTC Round-1 Qualified Students.