

Build Right Foundation  
for Your Child

# ALLEN DLP SCIENCE & MATHEMATICS OLYMPIADS

STUDY MATERIAL  
For : Class 8<sup>th</sup>



## SYLLABUS

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, 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, Ratio and Proportion, Time, Speed and Distance, Unitary Method, Time and Work, Pipes and Cisterns, Problem on Ages and Numbers.
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, Puzzle test, 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.
Excellent Mathematics-1	Number Theory, Ratio & Percentage, Indices, Algebra, Geometry, Data Handling, Logical Reasoning

