

Build Right Foundation  
for Your Child

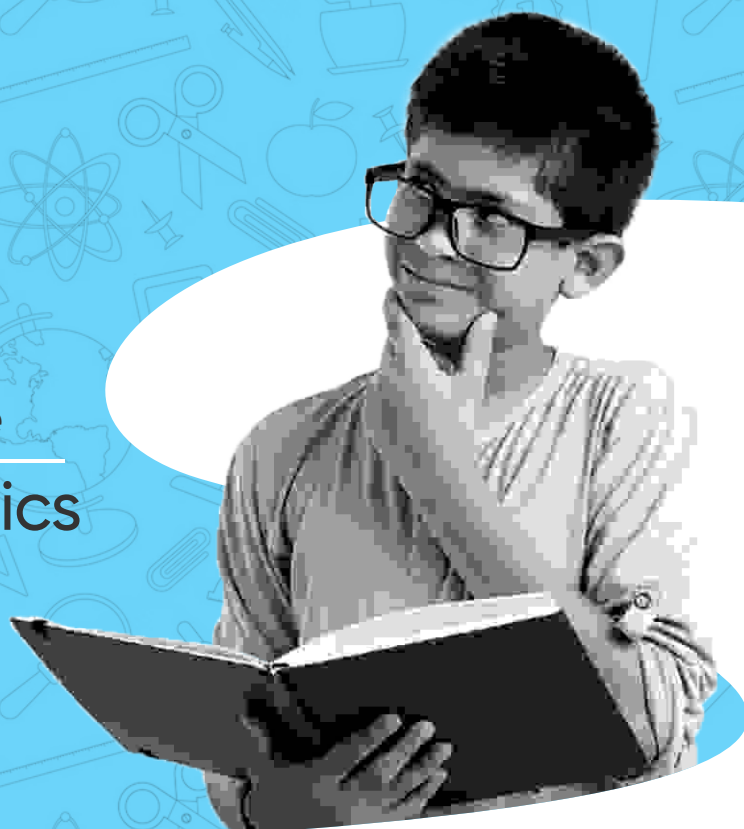
**ALLEN**

Distance Learning Programme

Science & Mathematics  
Olympiads

Study Material

For : Class 10<sup>th</sup> | Fee : ₹ 6000/-



## SYLLABUS

Advance Biology-1	Life Process - Nutrition, Life Process - Respiration, Life Process - Transportation, Life Process - Excretion, Control and Coordination, Reproduction in Plants and Animals, Heredity and Evolution, Our Environment, Management of Natural Resources.
Advance Biology-2	Cell, Tissue, Improvement in Food Resources, Diversity in Living Organisms, Why do we fall ill?
Advance Physics-1	Electricity and Chemical Effects of Current, Magnetic Effects of Electric Current, Light, Sources of Energy, Heat, Miscellaneous.
Advance Physics-2	Motion, Force and NLM, Gravitation, Thrust and Pressure; Work, Energy, Power; Waves and Sound
Advance Chemistry-1	Chemical Reactions & Equations, Acid, Bases and Salts, Metals and Non-metals, Carbon and Its Compounds, Periodic Classification of Elements.
Advance Chemistry-2	Matter in Our Surroundings, Is Matter Around us Pure, Atoms and Molecules, Structure of Atom.
Advance Mathematics-1	Linear Equations in Two Variables, Number System, Surds and Indices, Polynomials, Quadratic Equations, Arithmetic Progression, Coordinate Geometry, Trigonometry and Its Applications, Triangles, Circles and Tangent to the circle, Mensuration of Plane Figures, Mensuration of Solid Figures, Statistics, Probability, Lines and Angles, Quadrilaterals, Area of Parallelogram and Polygon.
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, Problems on Ages.
Mental Ability-1	<b>Verbal</b> : Series, Logical Sequence of Words, Coding & Decoding, Analogy, Classification, Logical Venn Diagrams, Mathematical Operations, Direction Sense Test, Alphabet Test, Puzzle Test, Number, Ranking & Time sequence Test, Alpha-Numeric Sequence Puzzle, Inserting The Missing Characters, Calendar, Arithmetical Reasoning, Blood Relations, Statements-Conclusions, Clock, Data Sufficiency, Sequential Output Tracing.
Mental Ability-2	<b>Non Verbal</b> : Series, Analogy, Classification, Analytical Reasoning, Mirror Images, Water Images, Spotting Out The Embedded Figures, Completion of Incomplete Pattern, Paper Folding & Paper Cutting, Dice, Cube, Dot Situation, Figure Matrix, Figure formation, Construction of Shapes & Grouping of Identical Figures.
Advance SST-1	History: The Making of a Global World, The Age of Industrialisation, Print Culture and the Modern World, The Rise of Nationalism in Europe, Nationalism in India. Civics: Power Sharing, Federalism, Democracy and Diversity, Gender, Religion and Caste, Popular Struggles and Movements, Political Parties, Outcomes of Democracy, Challenges to Democracy. Geography: Resources and Development, Forest and Wildlife Resources, Water Resources, Agriculture, Mineral and Energy Resources, Manufacturing Industries, Lifelines of National Economy.
Advance SST-2	Economics: Development, Sectors of the Indian Economy, Money And Credit, Globalisation and The Indian Economy, Consumer Rights. History : The French Revolution, Socialism in Russia and the Russian Revolution, Nazism and the Rise of Hitler, Forest Society and Colonialism, Pastoralists in the Modern World. Civics: What is Democracy? Why Democracy?, Constitutional Design, Electoral Politics, Working of Institutions, Democratic Rights. Geography: India Size And Location, Physical Features of India, Drainage, Climate, Natural Vegetation and Wildlife, Population.
Excellent Mathematics-1	Economics: The Story of Village Palampur, People as resource, Poverty As a Challenge, Food Security in India. Algebra, Geometry, Number System, Inequalities



: [dlp.allen.ac.in](http://dlp.allen.ac.in)



: 0744-3510275, 2750275