

STaRT (7th Edition) : TEST SYLLABUS | CLASS XI | STREAM : SCIENCE-MATHS

PHYSICS	MATHEMATICS	CHEMISTRY
1) Physical world and measurement	1. Sets Subtopic: Sets and their Representations, The Empty Set, Finite and Infinite Sets, Equal Sets, Subsets, Power Sets, Universal Sets, Venn Diagrams, Operations on sets, Complement of a Sets, Practical Problems on Union and intersection of two sets.	Full Syllabus of Class X
2) Kinematics	2. Relations and Functions (Elementary Function and their Domain, Range) Subtopic: Cartesian Product of Sets, Relations, Modulus function & G.I.F. & log functions	Some basic concept of Chemistry (Unit-1) NCERT XI
3) Laws of Motion	3. Trigonometric Functions & solutions of triangle including trigonometric equations) Subtopic: Angles, Trigonometric functions, Trigonometric functions of sum and difference of two angles, Trigonometric equations, Basics of solution of triangle.	Structure of Atom (Unit-2) NCERT XI
4) Work Energy Power	4. Principle of Mathematical Induction Subtopic: Motivation, The principle of Mathematical Induction	Classification of Elements and Periodicity in Properties (Unit-3) NCERT XI
5) Motion of System of Particles & Rigid body	5. Quadratic Equations : Quadratic equations in real and complex number system and their solutions. Relation between roots and co-efficients, nature of roots, formation of quadratic equations with given roots.	Chemical bonding and Molecular Structure (Unit-4) NCERT XI
	6. Linear Inequalities Subtopic: Inequalities, Algebra solutions of Linear inequalities in one variable and their Graphical representation, Graphical solutions of linear inequalities in two variables, Solution of system of linear inequalities in two variables	States of Matter (Unit-5) NCERT XI
	7. Permutations and Combinations Subtopic: Fundamental principle of counting, permutations, combinations	Organic Chemistry : Some Basic Principles and Techniques (Unit-12) NCERT XI
	8. Binomial Theorem Subtopic: Binomial theorem for positive integral indices, General and middle terms	Hydrogen (Unit-9) NCERT XI
	9. Sequence & Series Subtopic: Sequences, series, Arithmetic progression (A.P.), Geometric Progression (G.P.), Relationship between A.M. and G.M., Sum to n terms of special series	s-Block Element (Unit-10) NCERT XI
	10. Straight line : Two dimensions: Cartesian coordinates, distance between two points, section formulae, shift of origin. Equation of a straight line in various forms, angle between two lines, distance of a point from a line. Lines through the point of intersection of two given lines, equation of the bisector of the angle between two lines, concurrency of lines, centroid, orthocentre, incentre and circumcentre of a triangle.	
	11. Circle : Equation of a circle in various forms, equations of tangent, normal and chord. Parametric equations of a circle, intersection of a circle with a straight line or a circle, equation of a circle through the points of intersection of two circles and those of a circle and a straight line. Locus Problems.	