



## SYLLABUS FOR STEP SCHOLARSHIPS

STEP Scholarships follows an overlapping syllabus of core Math and Science concepts. The syllabus for each class is as listed below.

### CLASS 6

Sr. No	Math	Science
1	Playing with numbers	Light
2	Number System	Magnetism
3	Fractions	Habitat and Adaptation
4	Decimals	Separation of Substances
5	Data Handling	Water
6	Basic Geometrical Ideas	The Leaf
7	Ratio & Proportion	The Flower
8	Mensuration	Air and Atmosphere

### CLASS 7

Sr. No	Math	Science
1	Rational numbers	Physical & Chemical Changes
2	Integers	Motion
3	Fractions	Photosynthesis and respiration
4	Lines and Angles	Plant and animal Tissues
5	Decimals	Heat
6	Linear Equations	Classification of plants
7	Triangles	Elements, compounds and Mixtures
8	Congruence of Triangles	Light

## CLASS 8

Sr. No	Math	Science
1	Quadrilaterals	Force and Pressure
2	Exponents	Food Production
3	Area of Trapezium & a Polygon	Sound
4	Rational Numbers	Light
5	Linear Equations & Inequations	Reproduction in humans
6	Squares & Cubes	Elements, Compounds & Mixtures
7	Direct and Inverse Variations	Language of chemistry
8	Surface area and Volume	Combustion & flame

## CLASS 9

Sr. No	Math	Science
1	Circle	Laws of Motion
2	Expansions	Cell- the unit of life
3	Area and perimeter	Atomic Structure & Chemical bonding
4	Numbers	Tissues
5	Triangles	Diseases cause and control
6	Linear Equations in Two variables	Atoms and molecules
7	Quadrilaterals	Motion
8	Surface areas and Volumes	Reflection of Light

## CLASS 10

Sr. no.	Math	Science
1	Circles	Refraction of light
2	Linear inequations	Human evolution
3	Arithmetic and Geometric progression	Acids Bases and Salts
4	Heights & Distances	Metals & Non - Metals
5	Quadratic Equations	Periodic Table & Properties
6	Probability	Current electricity
7	Introduction to Trigonometry	Control & coordination
8	Statistics	Electro-Magnetism

## CLASS 11

Sr. no.	Math	Physics	Chemistry
1	Trigonometry	Vector	Mole Concept
2	Trigonometric Equations	Calculus for Physics	Atomic Structure
3	Quadratic Equations	Kinematics	Gaseous State
4	Sequenece and Series	Laws of Motion & Friction	Thermodynamics and Thermochemistry
5	Complex Numbers	Work Power Energy	General Organic Chemistry
6	Permutations and Combinations	Circular Motion	Isomerism
7	Binomial Theorem	Centre of Mass & Collision	Reaction Mechanism
8	Straight Lines	Rotational Dynamics & Sound Waves	Hydrocarbons

## CLASS 12

Sr. no.	Math	Physics	Chemistry
1	Functions	Electrostatics and Capacitors	Chemical Kinetics
2	Limits	Current Electricity	Electrochemistry
3	Continuity and Differentiability & Matrices and Determinants	Magnetism	Halogen Derivatives (Alkyl and Aryl Halides)
4	Method of Differentiation	Electromagnetic Induction	Alcohols Phenols and Ethers
5	Application of Derivatives	Alternative Currents	Aldehydes and Ketones
6	Indefinite Integrals	Ray Optics	Carboxylic Acids and Derivatives
7	Definite Integrals	Wave Optics	Co-ordination Compounds
8	Probability	Modern Physics	Salt Analysis