IOQM (Pre - RMO)- MATHEMATICS Syllabus

Class – 8th, 9TH or 10th (1 – Academic Year)

Basics of Algebra		Plane Geometry	
	Ratio & Proportion		Euclid Geometry
	Algebraic Expressions and Identities		Triangle, Quadrilateral & Polygon
	Polynomials		Circles
	Linear Equation		Area, Herons Formula
Quadratic Equations			Surface Area & Volume
	Inequations & Modulus	Trigonometry	
	Quadratic Equations		Angles and Measurements
	Functional Relationship		Trigonometric ratio & Identities
Sequence and Series			Compound angles
	AP, GP & HP		Height & Distance
	Telescopic Series	Inequalities	
	Miscellaneous Series		Logarithmic & Exponential
Number System / Number Theory			Cauchy-Schwarz Inequality
	Logarithm, Prime Numbers		Rearrangement Inequality
	Factors and Multiples		Jensen's Inequality
	HCF, LCM, Divisibility		Inequalities involving real numbers
	Modular Arithmetic, Congruence		RMS, AM, GM, HM inequalities
Combinatorics		Miscellaneous	
	Counting, Binomial Coefficients		Set Theory
	Permutation and Combinations		Diophantine Equations
	Probability		
	Pigeonhole Principle		

Note: (1) Regular testing (Subjective & Objective Both) on 28 Days.