Kindergarten Group Kindergarten Group Topics **Balance** Problem \geq **Basic Number Pattern** \triangleright **Basic Number Sequence** Logical Thinking \triangleright **Basic Figure Pattern** IQ Age Problem \geq IQ Date Problem \geq Smart Addition on 1-digit numbers \succ Addition on 1-digit numbers with carrying \triangleright Addition on 2-digit numbers without carrying \geq Smart Subtraction on 1-digit numbers Arithmetic \triangleright Subtraction on 1-digit numbers with carrying \succ Subtraction on 2-digit numbers without carrying \triangleright Balance on an equation \triangleright Introduction on Odd & Even numbers \triangleright Mathematical Leveling \succ **Basic Fibonacci Series** Number Theory Match Equation \geq **Basic Number Pattern** \geq Simple Number Distribution \geq Counting on 2-D Figures & 3-D Figures \geq Counting on number of sides & interior angles \geq Geometry Distinction on 2-D Figures \geq **Basic Figure Pattern** \geq Arranging the numbers in orders \triangleright Simple Distribution \triangleright Counting on specific numbers **Combinatorics** \triangleright Formation of a 3-digit number \succ Comparison on magnitude of 2-digit numbers

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Topics	Primary 1	Primary 2	Primary 3		
Logical Thinking	 Balance Problem Basic Number Pattern & Sequence Basic Figure Pattern IQ Age Problem & Date Problem Guess on 2-digit numbers 	 Balance Problem Basic Number Pattern & Sequence Basic Figure Pattern IQ Age Problem & Date Problem Guess on 2-digit numbers 	 Periodic Problem Advanced Figure Pattern IQ Age Problem & Date Problem Guess on 3-digit numbers Basic Pigeonhole Principle 		
Arithmetic	 Smart Addition on 1-digit numbers with carrying Smart Subtraction on 1 to 2-digit numbers with carrying Multiplication on 1 to 2-digit numbers without carrying Balance on an equation 	 Smart Addition on 2-digit numbers with carrying Smart Subtraction on 1 to 2-digit numbers with carrying Multiplication on 2-digit numbers with carrying Balance on an equation 	 Gaussian Addition Smart Addition on 3-digit numbers with carrying Smart Subtraction on 3-digit numbers with carrying Multiplication on 3-digit numbers 		
Number Theory	 Introduction on Odd & Even Mathematical Leveling Advanced Fibonacci Series Match Equation Basic Arithmetic Pattern 	 Introduction on Odd & Even Mathematical Leveling Advanced Fibonacci Series Match Equation Basic Arithmetic Pattern 	 Introduction on prime numbers Sum, Difference & Multiples Arithmetic Operation Basic Arithmetic Pattern Simple Divisibility 		
Geometry	 Counting on number of 2-D & 3-D Figures Counting on number of sides & interior angles Distinction on 2-D Figures Basic Figure Pattern 	 Counting on number of 2-D & 3-D Figures Counting on number of sides & interior angles Distinction on 2-D Figures Basic Figure Pattern 	 Counting on number of 2-D Figures Counting on Vertices, Faces & Edges of 3-D Figures Observations about 3-D Figures Basic Concept about Area & Perimeter Relationship between Line Segments, Angles & Figures 		
Combinatorics	 Seven Bridges of Königsberg Arranging numbers in orders Simple Distribution Counting on specific numbers Formation of a 3-digit number 	 Arranging numbers in orders Simple Distribution Counting on specific numbers Formation of a 3-digit number Simple Combination 	 Basic Routing Problem Advanced Distribution Counting on specific numbers Formation of a 3-digit number Excess and Deficiency 		

Primary Group

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Primary Group						
Topics	Primary 4	Primary 5	Primary 6			
Logical Thinking	 Periodic Problem Advanced Figure Pattern Chicken Rabbit Theorem Guess on 3-digit numbers Basic Pigeonhole Principle 	 Chicken Rabbit Theorem Speed, Distance & Time Problem Guess on 4-digit numbers by given number properties Advanced Pigeonhole Principle 	 Construction Problem Speed, Distance & Time Problem Guess on 4-digit numbers by given number properties Advanced Pigeonhole Principle 			
Arithmetic	 Gaussian Addition Smart Addition on 4-digit numbers with carrying Smart Subtraction on 4-digit numbers with carrying Multiplication on 3-digit numbers 	 Advanced Gaussian Addition Smart Calculation on Decimals & Fractions Sum of a series of square numbers Method of Difference equations Smart Addition on 5-digit numbers with carrying 	 Advanced Gaussian Addition Smart Calculation on Fractions Sum of a series of square numbers Sum of a series of cubic numbers Method of Difference equations Sum of Geometric Sequence 			
Number Theory	 Introduction on prime numbers Sum, Difference & Multiples Arithmetic Operation Relationship between L.C.M & H.C.F Simple Divisibility 	 Advanced Divisibility Number of positive factors Sum of all positive factors Unit digit of a series of <i>n</i>-digit numbers 	 Advanced Divisibility Number of positive factors Sum of all positive factors Unit digit of a series of <i>n</i>-digit numbers 			
Geometry	 Counting on number of 2-D Figures Counting on Vertices, Faces & Edges of 3-D Figures Observations about 3-D Figures Basic Concept about Area & Perimeter Relationship between Line Segments, Angles & Figures 	 Area & Perimeter of 2-D Figures Ratio of Area of 2-D Figures Volume & Surface Area of 3-D Figures Counting on number of 2-D Figures Relationship between Line Segments, Angles & Figures 	 Area & Perimeter of 2-D Figures Ratio of Area of 2-D Figures Volume & Surface Area of 3-D Figures Area of circle & Circumstance Relationship between Line Segments, Angles & Figures 			
Combinatorics	 Basic Routing Problem Advanced Distribution Counting on specific numbers Formation of a 3-digit number Excess and Deficiency 	 Advanced Pigeonhole Principle Advanced Routing Problem Combinations & Permutations Principle of Inclusion and Exclusion Excess and Deficiency 	 Advanced Pigeonhole Principle Advanced Routing Problem Combinations & Permutations Principle of Inclusion and Exclusion Simple Probability 			

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Secondary Group

Topics	Secondary 1		Secondary 2	
	Advanced Periodic Problems	\triangleright	Advanced Pigeonhole Principle	
	 Sneed Distance & Time Problem 	>	Guess on 4-digit numbers	
Logical Thinking	 Advanced Pigeonhole Principle 		Relationship between mean median & sum	
Logical Thinking	 Guess on 4-digit numbers 	>	Advanced Distributions	
	 Relationship between mean, median & sum 		Advanced Periodic Problems	
	Operation on directed numbers	À	Algebraic expression	
	 Algebraic expression 		Factorization	
	 Linear Equations 		Introduction on Absolute Value	
Algebra	 Introduction on Absolute Value 		Simplification on surd form	
	 Simplification on surd form 	À	Euclidean Algorithm	
	 Euclidean Algorithm 	\geq	Introduction on Inequalities	
Number Theory	Advanced problems on Prime Numbers	4	Periodic remainder problems	
	Counting on possible solution(s) on Indefinite equations		Counting on possible solution(s) on Indefinite equations	
	Introduction on repeating surd forms	\triangleright	Introduction on repeating surd forms	
	Sum of all Digits	\triangleright	Extreme values of a polynomial	
	Relationship between L.C.M & H.C.F	\succ	Factor Theorem	
	> Usage of Pythagorean theorem	\triangleright	Advanced usage of Pythagorean theorem	
	Characteristics of Congruent Triangles & Similar Triangles	\triangleright	Characteristics of Congruent Triangles & Similar Triangles	
	Area of circle & Circumstance		Triangle Inequality	
Geometry	Relationship between Line Segments, Angles & Figures	\succ	Relationship between Line Segments, Angles & Figures	
	Knowledge on Rectangular Coordinate System	\triangleright	Knowledge on Rectangular Coordinate System	
	Volume & Surface Area of 3-D Figures	\succ	Concepts about angle bisectors	
Combinatorics	Advanced Pigeonhole Principle	\triangleright	Advanced Pigeonhole Principle	
	Advanced Routing Problem	\succ	Advanced Routing Problem	
	Combinations & Permutations	\triangleright	Combinations & Permutations	
	Principle of Inclusion and Exclusion	\triangleright	Principle of Inclusion and Exclusion	
	Simple Probability	\triangleright	Simple Probability	
	Triangle Inequality	\triangleright	Counting on Like & Unlike Terms of a polynomial	

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Secondary Group

Topics	s Secondary 3		Senior Secondary Group (S4 – S6 in ONE group)	
-	A dyangad Digganhala Dringinla			
	Advanced Figeonnoie Finicipie		Auvanced Figeomole Finciple	
T ' 1751'1'	Guess on 4-digit numbers	~	Guess on 5-digit numbers	
Logical Thinking	Relationship between mean, median & sum	>	Relationship between mean, median & sum	
	Advanced Distributions		Advanced Distributions	
	Advanced Periodic Problems		Advanced Periodic Problems	
	Sum & Product of roots of a quadratic equation	\triangleright	Sum & Product of roots of a quadratic equation	
	Algebraic expression	\triangleright	Algebraic expression	
Algebra	Introduction on Absolute Value	\triangleright	Introduction on Absolute Value	
	Simplification on surd form	\triangleright	Simplification on surd form	
	Euclidean Algorithm	\triangleright	Euclidean Algorithm	
	Introduction on Inequalities	\triangleright	Introduction on Inequalities	
	Davia dia manain dan muchlanus	A	Periodic remainder problems	
	 Periodic remainder problems Counting on possible solution(s) on Indefinite equations Introduction on repeating surd forms Extreme values of a polynomial Modular Arithmetic 		Counting on possible solution(s) on Indefinite equations	
			Introduction on repeating surd forms	
Number Theory			Extreme values of a polynomial	
			Modular Arithmetic	
			Introduction on complex numbers	
Geometry	Advanced usage of Pythagorean theorem		Advanced knowledge on Rectangular Coordinate System	
	Menelaus' Theorem	\triangleright	Menelaus' Theorem	
	Relationship between Line Segments, Angles & Figures	\triangleright	Relationship between Line Segments, Angles & Figures	
	Advanced knowledge on Rectangular Coordinate System		Circumcentre, Incentre, Centroid & Orthocentre	
	> Trigonometry	\triangleright	Trigonometry	
Combinatorics	Advanced Pigeonhole Principle	\blacktriangleright	Advanced Pigeonhole Principle	
	Combinations & Permutations	\triangleright	Combinations & Permutations	
	Principle of Inclusion and Exclusion	\succ	Principle of Inclusion and Exclusion	
	> Advanced Probability	\triangleright	Advanced Probability	
	> Counting on Like & Unlike Terms of a polynomial	\triangleright	Counting on Like & Unlike Terms of a polynomial	

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