MATH BEE Syllabus

Updated 2023

Level 1 - Grades 1, 2 and 3

Level 2 - Grades 4, and 5

Торіс	MB1 (K-3)	<b>MB2</b> (4-5)	<b>MB3</b> (6-8)
Arithmetic			
Numbers	X		
Counting	X		
Arithmetic operations	Х		
Numbers consisting of multiple digits	Х		
Place value	Х		
Addition and subtraction of numbers consisting of multiple digits	х		
Ones/Tens/Hundreds/Thousands	X		
Numbers in sequence	Х		
Measurement of time, length, and money	Х		
Basic concepts of fractions	Х		
Comparison of numbers	Х		
Word problems (including problems with too much information)	х		
Fractions	Х	Х	
Addition	X	Х	
Subtraction	Х	Х	
Multiplication	Х	Х	
Division	Х	X	
Decimal numbers	X	X	
Addition	Х	Х	
Subtraction	Х	Х	
Multiplication	Х	Х	
Division	Х	Х	
Order of operations	Х	Х	
Volume, Mass, Length	Х	Х	

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Торіс	MB1 (K-3)	<b>MB2</b> (4-5)	MB3 (6-8)
Prime numbers		X	
Percentages		X	
Divisibility		X	
Simple interest calculations		X	
Decimal to fractions and vice versa		Х	
Scientific notation of numbers		Х	
Elements of algebra		Х	
Linear equations with one variable		X	
Consumer math: discounts and markup		Х	
Advanced topics in fractions			Х
Rounding Off Decimals			Х
Squares and Square Roots			Х
Ordering the Rational Numbers			Х
Ratio and proportions			Х
Variations			Х
Irrational Numbers			Х
Approximating Square Roots			Х
Averaging Method			Х
Comparing Ratios			Х
Mean, Median, and Mode			Х
Taking Samples			Х
Reasonable Estimates			Х
Estimating Products			Х
Estimating Quotients			Х
Conversion between Systems of Measurement			Х
Kilograms and Liters			Х
Estimating Averages			Х
Geometry			

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Areas and volume	X	X	X
Squares, triangles (types, properties)	Х	Х	
Pythagoras Theorem		X	
Basic concepts of graphs		X	
Circles and Regular Polygons			X
Advanced topics in Pythagorean Theorem			Х
Similar figures			X
Applications of similarity			X
Trigonometric Ratios			X
Applications of Trigonometric Ratios			Х
Volume of a Circular Cylinder			Х
Volume of a Circular Cone			X
Volume of a Sphere			X
Volume of Prisms and Pyramids			X
Applications of Volume			X
Surface Area			Х
Surface Area of a Cylinder			X
Surface Area of a Cone			X
Area of a Sector			X
Surface Area of a Sphere			X
Applications of Surface Area			X
Plans and Elevations			X
Oblique Drawings			X
Elements of coordinate geometry			Х
Logic			
Review of sets		Х	
Subset and superset		Х	
Set operations		Х	

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Boolean algebra, venn diagram, logic			Х
Probability			
Elements of probability		X	
Algebra			
Factorials			Х
Permutations and combinations			Х
Pascal's Triangle			Х
Combinations and Probability			X
LCM and GCF			X
Applications of GCF and LCM			X
Theory of exponents			X
Introduction to logarithms			Х
Absolute Value			Х
Equalities and Inequalities Using Absolute Value			Х
Solving Equations by Graphing			Х
Graphing an Inequality on a Coordinate Plane			Х
Graphing Pairs of Inequalities			X
Solving Equations			X
Definition of Linear, Increasing, and Decreasing Functions			Х
Applications			Х
Solving Pairs of Equations by Graphing			Х
Solving Systems of Equations by Substitution			X
Solving Systems of Equations			X
Quadratic equations and inequalities			Х