

MITCON International School

Syllabus (2019-2020)

Grade :VI

Subject: Mathematics

MONTH	STRANDS	TOPICS	SUB-TOPICS
April	Numbers and Operations	Large numbers up to 8 Digits	<ul style="list-style-type: none"> • Indian and International number system • Expanded Form • Roman Numerals • Making Numbers • Application of Numbers
April		Operations on large numbers	<ul style="list-style-type: none"> • Story Problems: Addition and subtraction • Story Problems: Multiplication and Division • Using Brackets • Expanding Brackets
April		Estimation of numbers	<ul style="list-style-type: none"> • Rounding Off • Estimating Sum or Difference • Estimating Products • Estimation in Real Life • Problems on Estimation
June		Whole Numbers	<ul style="list-style-type: none"> • Numbers: Natural and Whole • Predecessors and Successors • Patterns in Numbers • Operations on a Number Line • Problems on Whole Numbers
June		Properties of whole Numbers	<ul style="list-style-type: none"> • Closure and Commutative Property • Associative Property • Distributive Property • Special Properties • Application of Properties
June		Factors and Multiples	<ul style="list-style-type: none"> • Factors • Multiples • Prime or Composite Numbers • Sieve Of Eratosthenes • Problems on Factors and Multiples
June		Divisibility Rules	<ul style="list-style-type: none"> • Divisibility Rules of 2, 3 & 6 • Divisibility Rules of 5, 9 & 10 • Divisibility Rules of 4, 8 & 11 • More Divisibility Rules

			<ul style="list-style-type: none"> • Application of Divisibility Rules
July		Factorisation	<ul style="list-style-type: none"> • Prime Factorisation • Highest Common Factor • Lowest Common Multiple • Application of Factorisation
July	Geometry	Lines and Curves	<ul style="list-style-type: none"> • Lines • Measuring Line Segments • Curves • Parallel and Intersecting Lines • Solving Problems: Lines and Curves
July		Angles	<ul style="list-style-type: none"> • Types of Angles • Estimating Angles on a Clock • Measuring Angles • Directions and Angles • Angle Measures
July		Triangles	<ul style="list-style-type: none"> • Triangles and its parts • Classifying Triangles: Sides • Classifying Triangles: Angles • Classifying Triangles: Sides and Angles
July		Shapes and Solids	<ul style="list-style-type: none"> • Polygons • Quadrilaterals • 3-D Shapes • Net of 3-D Shapes
August		Numbers and Operations	Introduction to Integers
August	Adding and Subtracting Integers		<ul style="list-style-type: none"> • Adding Integers • Subtracting Integers • Absolute Value • Additive Inverse
August	Fractions and Decimals	Fractions	<ul style="list-style-type: none"> • Identifying Fractions • Representing Fractions • Converting Fractions • Fraction Story Problems
August		Comparing Fractions	<ul style="list-style-type: none"> • Comparing Like Fractions • Equivalent Fractions • Comparing Unlike Fractions • Ordering Fractions

October		Adding and Subtracting Fractions	<ul style="list-style-type: none"> • Adding and Subtracting Like Fractions • Adding and Subtracting Unlike Fractions • Adding and Subtracting Mixed Fractions • Fractions Story Problems
October		Decimals	<ul style="list-style-type: none"> • Decimal Numbers on a Grid • Decimals on a Number Line • Converting Decimals to fractions • Converting Fractions to decimals • Comparing and Ordering Decimals
October		Adding and Subtracting Decimals	<ul style="list-style-type: none"> • Decimals in Money and Measurement • Adding Like Decimals • Adding Unlike Decimals • Subtracting Like decimals • Subtracting Unlike decimals • Solving Story Problems
November	Data Handling	Data Handling	<ul style="list-style-type: none"> • Organising Data • Pictographs • Bar Graphs • Tally Marks • Interpreting Graphs
November	Algebra	Introduction to Algebra	<ul style="list-style-type: none"> • Number Patterns • Rules in Pattern • Rules in Geometry • Variables and Properties • Variables and Patterns
November		Algebraic expressions and Equations	<ul style="list-style-type: none"> • Arithmetic Expressions • Algebraic Expressions • Solving Algebraic Expressions • Story Problems • Practice: Expressions and Equations
December	Ratio and Proportion	Ratio	<ul style="list-style-type: none"> • Introducing Ratios • Simplifying Ratios • Equivalent Ratios • Part of Whole • Ratio: Story Problems

Decemb er		Proportion	<ul style="list-style-type: none"> • Introducing to Proportion • Proportional Terms • Unitary Methods • More on Unitary Method • Proportion: Story Problems
Decemb er	Measurement	Perimeter	<ul style="list-style-type: none"> • Perimeter of Shapes • Perimeter of Irregular Shapes • Perimeter of rectangle and Square • Perimeter of Regular Shapes • Finding Perimeter of Composite Shapes
January		Area	<ul style="list-style-type: none"> • Area of Irregular Shapes • Area of Rectangles • Area of Squares • Area and its Application • Finding Area of Composite Shapes
January	Geometry	Symmetry	<ul style="list-style-type: none"> • Symmetry in Shapes • Symmetry on Squared Paper • Symmetry In Designs • Lines of Symmetry • Reflection Symmetry
January		Construction of line segments	<ul style="list-style-type: none"> • Constructing Line Segments • Perpendicular to Line Segments • Constructing a Perpendicular Bisector • Perpendicular Bisector : Properties
January		Circles	<ul style="list-style-type: none"> • Circle and its parts • Radius and Diameter • Constructing Circles • Circumference Of a Circle • Circles: Solve Problems
January		Angle Constructions	<ul style="list-style-type: none"> • Constructing Angle Bisectors • Constructing a Copy of an Angle • Constructing Angles • More Constructions