MONTHLY SYLLABUS

SESSION-2017-18

CLASS-VIII

SUBJECT : MATHEMATICS

MONTH	CONTENT
TERM-I (PRATIBHA)	
April 2017	**Chapter-1:Rational Numbers** Introduction, Negative of a number, Representation of Rational Numbers on the Number Line, Rational Numbers between two Rational Numbers. **Note: As per SCERT guidelines –Content not to be taught – Section 1.2 and terminology of Ex. 1.1 (except 1.2.6 Negative of a number)** **Chapter-2:Linear Equations in One Variable** Introduction, Solving Equations which have Linear expressions on one side and numbers on the other side, Some Applications, Solving equations having the variable on both sides, Some More Applications **Mental Maths, Maths Lab Activities, YUVA Sessions**
May 2017	**Chapter-2 : Linear Equations in One Variable** Reducing Equations to Simpler Form, Equations Reducible to the Linear Form **Mental Maths, Maths Lab Activities, YUVA Sessions**
July 2017	**Chapter-5 : Data Handling** Looking for Information, Organising Data, Circle Graph or Pie Chart **Note: As per SCERT guidelines –Content not to be taught – Section 5.3 and Exercise 5.1, section 5.5 and Exercise 5.3**

	Chapter 6 : Squares and Square Roots Introduction, Properties of Square Numbers, Some More Interesting Patterns, Finding the Square of a Number, Square Roots, Square Roots of Decimals, Estimating Square Root **Chapter-7 : Cubes and Cube Roots** Introduction, Cubes, Cube Roots **Mental Maths, Maths Lab Activities, YUVA Sessions**
August 2017	**Chapter-3 : Understanding Quadrilaterals** Introduction, Polygons, Sum of the Measures of the Exterior Angles of a Polygon, Kinds of Quadrilaterals, Some Special Parallelograms. **Chapter-4 : Practical Geometry** Introduction, Constructing a Quadrilateral, Some Special Cases **Chpater-8 : Comparing Quantities** Recalling Ratios and percentages, Finding the Increase or Decrease Percent, Finding Discounts, Prices Related to Buying and Selling (Profit and Loss), Sales Tax/Value Added Tax, Compound interest, Deducing a Formula for Compound Interest, Rate Compounded Annually or Half Yearly (Semi Annually), Applications of Compound Interest Formula **Mental Maths, Maths Lab Activities, YUVA Sessions**
September 2017	**Chapter- 16: Playing with Numbers** Introduction, Number in General Form, Games with Numbers, Tests of Divisibility **Note: As per SCERT guidelines –Content not to be taught – Section 16.4 and Exercise 16.1** **Mental Maths, Maths Lab Activities, YUVA Sessions**
TERM-II (PRATIBHA)
MONTH	**CONTENT**

October 2017	**Chapter-9 : Algebraic Expressions and Identities** What are Expressions?, Terms, Factors, and Coefficients, Monomials, Binomials and Polynomials, Like and Unlike Terms, Addition and Subtraction of Algebraic Expressions, Multiplication of Algebraic Expression: Introduction, Multiplying a Monomial by a Monomial, Multiplying a Monomial by a Polynomial, Multiplying a Polynomial by a Polynomial, What is an Identity?, Standard identities, Applying Identities **Chapter-10: Visualising Solid Shapes** Introduction, Views of 3D-Shapes, Mapping Space Around Us, Faces, Edges and Vertices **Mental Maths, Maths Lab Activities, YUVA Sessions**
November 2017	**Chapter-11 : Mensuration** Introduction, Let Us Recall, Area of Trapezium, Area of a General Quadrilateral, Area of a Polygon **Note – As per SCERT guidelines – Content not to be taught (Section 11.6 to 11.9 and Exercise 11.3 & 11.4)** **Chapter-12 : Exponents and Powers** Introduction, Powers with Negative Exponents, Laws of Exponents, Use of Exponents to Express Small Numbers in Standard Form **Chapter-13 : Direct and Inverse Proportions** Introduction, Direct Proportion **Mental Maths, Maths Lab Activities, YUVA Sessions**
December 2017	**Chapter-13 : Direct and Inverse Proportions** Inverse Proportion **Chapter-14 : Factorisation** Introduction, What is Factorisation?, Division of Algebraic Expression, Division of Algebraic Expression Continued

	(Polynomial÷Polynomial), Can you Find the Error? **Mental Maths, Maths Lab Activities, YUVA Sessions**
January 2018	**Chapter-15 : Introduction to Graphs** Introduction, Linear Graphs, Some Applications **Chapter-1: Rational Numbers (This Content of Term I is to be repeated and evaluated in Term II)** Introduction, Negative of a number, Representation of Rational Numbers on the Number Line, Rational Numbers between Two Rational Numbers **Note: As per SCERT guidelines –Content not to be taught – Section 1.2 and terminology of Ex. 1.1 (except 1.2.6 Negative of a number)** **Mental Maths, Maths Lab Activities, YUVA Sessions**
February 2018	**Chapter-4 : Practical Geometry (This content of Term I is to be repeated and evaluated in Term II)** Introduction, Constructing a Quadrilateral, Some Special Cases **Chapter-6 : Squares and Square Roots (This content of Term I to be repeated and evaluated in Term II)** Introduction, Properties of Square Numbers, Some More Interesting Patterns, Finding the Square of a Number, Square Roots, Square Roots of Decimals, Estimating Square Root **Mental Maths, Maths Lab Activities, YUVA Sessions**

CLASS-VIII (NISHTHA)

SUBJECT : MATHEMATICS

TERM-I

MONTH	CONTENT
April 2017	**Chapter-1:Rational Numbers** Introduction, Negative of a number, Representation of Rational Numbers on the Number Line, Rational Numbers between two Rational Numbers. **Note: As per SCERT guidelines –Content not to be taught – Section 1.2 and terminology of Ex. 1.1 (except 1.2.6 Negative of a number)** **Chapter-2:Linear Equations in One Variable** Introduction, Solving Equations which have Linear expressions on one side and numbers on the other side, Some Applications, Solving Equations having the variable on both sides, Some More Applications **Mental Maths, Maths Lab Activities, YUVA Sessions**
May 2017	**Chapter-2 : Linear Equations in One Variable** Reducing Equations to Simpler Form, Equations Reducible to the Linear Form **Mental Maths, Maths Lab Activities, YUVA Sessions**
July 2017	**Chapter-6 : Squares and Square Roots** Introduction, Properties of Square Numbers, Some More Interesting Patterns, Finding the Square of a Number, Square Roots, Square Roots of Decimals, Estimating Square Root **Chapter-7 : Cubes and Cube Roots** Introduction, Cubes, Cube Roots **Mental Maths, Maths Lab Activities, YUVA Sessions**

August 2017	**Chapter-3 : Understanding Quadrilaterals** Introduction, Polygons, Sum of the Measures of the Exterior Angles of a Polygon, Kinds of Quadrilaterals, Some Special Parallelograms. **Chapter-4 : Practical Geometry** Introduction, Constructing a Quadrilateral, Some Special Cases **Mental Maths, Maths Lab Activities, YUVA Sessions**
September 2017	**Chapter- 5: Data handling** Looking for Information, Organising Data, Circle Graph or Pie Chart **Note: As per SCERT guidelines –Content not to be taught – Section 5.3 and Exercise 5.1, section 5.5 and Exercise 5.3** **Mental Maths, Maths Lab Activities, YUVA Sessions**

TERM-II (NISHTHA)	
MONTH	**CONTENT**
October 2017	**Chapter-9 : Algebraic Expressions and Identities** What are Expressions?, Terms, Factors, and Coefficients, Monomials, Binomials and Polynomials, Like and Unlike Terms, Addition and Subtraction of Algebraic Expressions, Multiplication of Algebraic Expression: Introduction, Multiplying a Monomial by a Monomial, Multiplying a Monomial by a Polynomial, Multiplying a Polynomial by a Polynomial, What is an Identity?, Standard identities, Applying Identities **Mental Maths, Maths Lab Activities, YUVA Sessions**
November 2017	**Chapter-11 : Mensuration** Introduction, Let Us Recall, Area of Trapezium, Area of a General Quadrilateral, Area of a Polygon **Note – As per SCERT guidelines Content not to be taught**

	(Section 11.6 to 11.9 and Exercise 11.3 & 11.4)
	Chapter-12 : Exponents and Powers
	Introduction, Powers with Negative Exponents, Laws of Exponents, Use of Exponents to Express Small Numbers in Standard Form
	Mental Maths, Maths Lab Activities, YUVA Sessions
December 2017	**Chapter-14 : Factorisation**
	Introduction, What is Factorisation?, Division of Algebraic Expression, Division of Algebraic Expression Continued (Polynomial÷Polynomial), Can you Find the Error?
	Mental Maths, Maths Lab Activities, YUVA Sessions
January 2018	**Chapter-15 : Introduction to Graphs**
	Introduction, Linear Graphs, Some Applications
	Chapter-1: Rational Numbers (This Content of Term I is to be repeated and evaluated in Term II)
	Introduction, Negative of a number, Representation of Rational Numbers on the Number Line, Rational Numbers between Two Rational Numbers
	Note: As per SCERT guidelines –Content not to be taught – Section 1.2 and terminology of Ex. 1.1 (except 1.2.6 Negative of a number)
	Mental Maths, Maths Lab Activities, YUVA Sessions
February 2018	**Chapter-6 : Squares and Square Roots (This content of Term I is to be repeated and evaluated in Term II)**
	Introduction, Properties of Square Numbers, Some More Interesting Patterns, Finding the Square of a Number, Square Roots, Square Roots of Decimals, Estimating Square Root
	Mental Maths, Maths Lab Activities, YUVA Sessions

CLASS-VIII (NISHTHA-NEO READER)

SUBJECT : MATHEMATICS

TERM-I

MONTH	CONTENT
April 2017	**Chapter-1:Rational Numbers** Introduction, Negative of a number, Representation of Rational Numbers on the Number Line, Rational Numbers between two Rational Numbers. **Note: As per SCERT guidelines –Content not to be taught – Section 1.2 and terminology of Ex. 1.1 (except 1.2.6 Negative of a number)** **Chapter-3:Understanding quadrilaterals** Introduction, Polygons, Sum of the Measures of the Exterior Angles of a Polygon **Mental Maths, Maths Lab Activities, YUVA Sessions**
May 2017	**Chapter-3 : Understanding quadrilaterals** Kinds of Quadrilaterals, Some Special Parallelograms **Mental Maths, Maths Lab Activities, YUVA Sessions**
July 2017	**Chapter-2 : Linear Equations in One Variable** Introduction, Solving Equations which have Linear Expressions on one Side and Numbers on the other Side, Some Applications, Solving Equations having the Variable on both Sides, Some More Applications, Reducing Equations to Simpler Form, Equations Reducible to the Linear Form **Mental Maths, Maths Lab Activities, YUVA Sessions**
August 2017	**Chapter-6 : Squares and Square Roots** Introduction, Properties of Square Numbers, Some More Interesting Patterns, Finding the Square of a Number, Square

	Roots, Square Roots of Decimals, Estimating Square Root
	Chapter-7 : Cubes and Cube Roots
	Introduction, Cubes
	Mental Maths, Maths Lab Activities, YUVA Sessions
September 2017	**Chapter-7 : Cubes and Cube Roots**
	Cube Roots
	Mental Maths, Maths Lab Activities, YUVA Sessions

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TERM-II (NISHTHA – NEO READER)

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MONTH	CONTENT
October 2017	**Chapter-9 : Algebraic Expressions and Identities**
	What are Expressions?, Terms, Factors, and Coefficients, Monomials, Binomials and Polynomials, Like and Unlike Terms, Addition and Subtraction of Algebraic Expressions, Multiplication of Algebraic Expression: Introduction, Multiplying a Monomial by a Monomial, Multiplying a Monomial by a Polynomial, Multiplying a Polynomial by a Polynomial, What is an Identity?, Standard identities, Applying Identities
	Mental Maths, Maths Lab Activities, YUVA Sessions
November 2017	**Chapter-12 : Exponents and Powers**
	Introduction, Powers with Negative Exponents, Laws of Exponents, Use of Exponents to Express Small Numbers in Standard Form
	Mental Maths, Maths Lab Activities, YUVA Sessions
December 2017	**Chapter-15 : Introduction to Graphs**
	Introduction, Linear Graphs, Some Applications
	Mental Maths, Maths Lab Activities, YUVA Sessions

January 2018	**Chapter-1: Rational Numbers (This Content of Term I is to be repeated and evaluated in Term II)** Introduction, Negative of a number, Representation of Rational Numbers on the Number Line, Rational Numbers between Two Rational Numbers **Note: As per SCERT guidelines –Content not to be taught – Section 1.2 and terminology of Ex. 1.1 (except 1.2.6 Negative of a number)** **Mental Maths, Maths Lab Activities, YUVA Sessions**
February 2018	**Chapter-6 : Squares and Square Roots (This content of Term I is to be repeated and evaluated in Term II)** Introduction, Properties of Square Numbers, Some More Interesting Patterns, Finding the Square of a Number, Square Roots, Square Roots of Decimals, Estimating Square Root **Mental Maths, Maths Lab Activities, YUVA Sessions**