# **CAMBRIAN PUBLIC SCHOOL**

## **KANKE ROAD, RANCHI**

# **LEARNING PLAN OUTCOMES**

## **SUBJECT : MATHEMATICS**

#### **CLASS :VI**

S. No.	Month	Name Of	Learning Outcomes
		The Chapter	
1	April	Ch 1- Number System	Students will be able to recognize the numbers using- <sup>o</sup> Indian and International system of numeration <sup>o</sup> place value <sup>o</sup> face value Students will be able to perform <sup>o</sup> operations of addition, subtraction, multiplication and division using story sums. Students will be able to find the <sup>o</sup> estimated sum, difference ,product and quotient . Students will be able to identify the numerals that are meaningless.
		Ch -3 Whole Numbers	°Students will be able to differentiate between natural numbers and whole numbers °Students will be able perform operations on whole numbers after knowing the properties of whole numbers.
2	May	Ch 4-Integers	Students will be able to ° write integers on number line

			° perform sums based on operations on integers ° know about the properties of integers
3	June	Ch -2 Factors and Multiples	Students will be able to <sup>o</sup> differentiate between factors and multiples <sup>o</sup> find relation between factors and multiples <sup>o</sup> solve sums based on factors and multiples
		Ch 5– Fractions	Students will know about °fraction as a part of collection °fractional part of a collection ° different types of fraction ° represent fraction on number line
		Ch 6 – Simplification	<sup>°</sup> Students will be able to simplify expressions involving brackets using the <b>VBODMAS</b> rule <sup>°</sup> Students will be able to find the square root of a number by expressing it as a product of primes.
4	July	Ch -7 Decimals	Students will be able to ° convert mixed fractions as decimals °identify like and unlike decimals °compare decimals ° convert fractions to decimals and vice versa. ° perform operations based on decimals
		Ch 8 -Algebraic Expression	°Students will be able to understand the concept of algebra as generalized arithmetic.
			°Students will be able to identify variables and constants. °Students will be able to find the value of an algebraic expression °They will be able to perform operations on algebraic expressions

5	August	Ch 11-Line Segment, Ray and Line	Students will be able to ° differentiate line, line segment and ray ° identify different types of lines
		Ch 19 – Three – Dimensional Shapes	Students will be able to ° identify different types of solid shapes ° know about the parts of solid shapes
		Ch 20 – Two – Dimensional Reflection Symmetry	Students will be able to dentify ° line of symmetry of an object and hence conclude whether an object is symmetrical or not
6	September - October	Ch 9 – Linear Equation in One Variable	Students will be able to ° understand what is an equation °find solution to an equation
7	October	Ch 10- Ratio, Proportion and Unitary Method	Students will be able to <sup>o</sup> find equivalent ratios <sup>o</sup> convert ratio in simplest form <sup>o</sup> compare ratios <sup>o</sup> find whether two ratios are in proportion
		Ch – 12 Parallel Lines	Students will be able to test whether given lines are parallel
		Ch 13 – Angles and their Measurement	Students will be able to ° identify different types of angle ° measure an angle by a protractor
8	October - November	Ch – 14 Constructions	Students will be able to draw <sup>o</sup> perpendicular bisector of a given line segment <sup>o</sup> line perpendicular to a given line from a point outside it <sup>o</sup> some special angles using a pair of compasses
9	November	Ch 15 - Polygons	Students will be able to ° differentiate between open and closed figure ° identify various types of polygons

		Ch – 16 Triangles	Students will be able to identify various types of triangles ° by considering the length of their sides ° by considering their angles
10	December	Ch – 17 Quadrilaterals	Students will be able to ° identify various types of quadrilaterals after knowing the properties of them.
		Ch – 18 Circles	Students will be able to °identify the parts of a circle ° know the relation between the diameter and the radius of a circle
		Ch – 21 Concepts of Perimeter and Area	Students will be able to <sup>o</sup> find the perimeter of a square, rectangle and a circle <sup>o</sup> calculate the area of a square and a rectangle <sup>o</sup> learn the real life application of area and perimeter
11	January	Ch 22- Data Handling	Students will understand the concept of data and tabulation of data.
		Ch 23- Pictograph	Students will learn to represent data using pictures.
12	Jan - Feb	Ch -24 Bar Graph	Students will be able to read and interpret a bar graph.