KIDS WORLD SCHOOL ANNUAL CURRICULUM PLANNER 2024-25 SUBJECT – MATHEMATICS CLASS – X

	NAME OF THE CHAPTER	METHODOLOGY	LEARNING OBJCETIVE			
MONTH			KNOWLEDEGE/ CONTENT BASED	APPLICATION BASED	LEARNING OUTCOMES	MODE OF ASSESSMENT + ACTVITY
APRIL 01/04/2024 - 08/04/2024	01 Real numbers	*Explanation *Demonstration *Problem Solving *Heuristic *Inductive *Deductive	* Fundamental theorem of Arithmetic. *Proof of irrationality $\sqrt{2}, \sqrt{3}, \sqrt{5}$ etc *Proof of irrationality $l \pm m\sqrt{n}$ *LCM and HCF	*Understand to find LCM and HCF. *Able to prove irrationality by contradiction method.	*Consolidate the knowledge and the skill acquired. *Develop mastery of basic skills. *Think, analyze and articulate logically.	Assessment of learning *Worksheets *Assignments * Lab Activity * Case study
APRIL 12/04/2024 - 24/04/2024	02 Polynomials	*Explanation *Demonstration *Problem Solving *Heuristic	*Zeroes of Polynomials. *Relationship between zeroes and coefficient of polynomials.	*To draw a graph for quadratic polynomial.	* Correlate basic concept * Develop arithmetical ability *Consolidate the knowledge and the skill acquired. *Develop mastery of basic skills. *Think, analyze and articulate logically.	Assessment of Learning *Worksheets *Assignments * Lab Activity
APRIL + JUNE 25/04/2024 - 29/06/2024	03 Pair Of Linear Equations in Two Variables	*Explanation *Demonstration *Problem Solving *Heuristic *Deductive *Analysis	*Graphical Method for consistency/ inconsistency *Substitution Method *Elimination Method *Simple situational problems	*To understand a situation or condition for intersection, coincident and parallel lines and to draw graphs for them.	*Consolidate the knowledge and the skill acquired. *Develop mastery of basic skills. *Think, analyze and articulate logically. *Develop drawing skills	*Worksheets *Assignments * Lab Activity * Case study

JULY 01/072024 - 16/07/2024	04 Quadratic Equations	*Explanation *Demonstration *Problem Solving *Heuristic *Deductive *Analysis	*Factorisation of Q.E *Quadratic formula *Nature Of Roots	*To verify the roots of quadratic equation by splitting the middle term and quadratic formula.	* Correlate basic concept * Develop arithmetical ability *Consolidate the knowledge and the skill acquired. *Think, analyze and articulate logically.	*Worksheets *Assignments * Lab Activity * Case study
JULY 18/07/2024 - 03/08/2024	05 Arithmetic Progression	*Explanation *Demonstration *Problem Solving *Heuristic	*Factorisation of Q.E *Quadratic formula *Nature Of Roots	*To identify AP in some given lists. *To find the sum of n natural numbers. *To find the sum of n odd numbers. *To establish a formula for a sum of first n terms of AP.	*Consolidate the knowledge and the skill acquired. *Develop mastery of basic skills. *Think, analyze and articulate logically.	*Worksheets *Assignments * Lab Activity * Case study
AUGUST 05/08/2024 - 17/08/2024	06 Triangles	*Explanation *Demonstration *Problem Solving *Heuristic *Deductive	*Thales Theorem *Similarity of Triangles *Criteria For Similarity	*To draw a system of similar triangles. *To verity basic proportionality theorem. To establish criteria for similarity.	*Consolidate the knowledge and the skill acquired. *Develop mastery of basic skills. *Think, analyze and articulate logically. *Develop drawing skills.	*Worksheets *Assignments * Lab Activity * Case study * Interdisciplinay

AUGUST 20/08/2024 - 31/08/2024	07 Coordinate Geometry	*Explanation *Demonstration *Problem Solving *Heuristic *Inductive *Deductive	*Distance Formula *Section Formula	*To verify the distance formula by graphical method. *To verify the section formula by graphical method.	*Think, analyze and articulate logically. * Develop numerical ability *Consolidate the knowledge and the skill acquired.	*Worksheets *Assignments * Lab Activity * Case study
SEP. 02/092024 - 21/09/2024	08 Trigonometry	*Explanation *Demonstration *Problem Solving *Heuristic *Inductive *Deductive	*Trigonometric Ratios *Some Specific Angles *Trigonometric Identities	*To verify (a) $\sin^2 A + \cos^2 A = 1$ (b) $\sec^2 A - \tan^2 A = 1$ (c) $\csc^2 A - \cot^2 A = 1$	*Consolidate the knowledge and the skill acquired. *Develop mastery of basic skills. *Think, analyze and articulate logically.	*Worksheets *Assignments * Lab Activity
SEP. 23/09/2024 - 30/09/2024	09 Some Applications Of Trigonometry	*Explanation *Demonstration *Problem Solving *Heuristic *Inductive *Deductive	*Height And Distance	*To find the height of a building or tower or tree using a clinometer.	*Consolidate the knowledge and the skill acquired. *Develop mastery of basic skills. *Think, analyze and articulate logically. *Develop drawing skills	*Worksheets *Assignments * Lab Activity * Case study
OCT. 01/10/2024 - 08/10/2024	10 Circles	*Explanation *Demonstration *Problem Solving *Heuristic	*Tangents Perpendicular To A Circle *Length of Tangents from external point	*To verity experimentally that the tangents at any point to a circle is perpendicular to the radius through that point. *To find the number of tangents from a point to a circle.	*Develop geometrical skills *Develop constructional visualisation. *Develop mastery of basic skills. *Think, analyze and articulate logically.	*Worksheets *Assignments * Lab Activity * Case study

OCT. 08/10/2024 onwards	TERM I Examination 80 Marks					
NOV. 11/11/2024 - 23/11/2024	12 Area Related To Circle	*Explanation *Demonstration *Problem Solving *Heuristic *Deductive		*To obtain formula for areas of a circle experimentally	*Develop sense of visualisation *Develop numerical skills and ability. *Develop critical thinking *To connect the knowledge to different subjects. *To learn real life applications of knowledge.	Assessment of Learning *Worksheets *Assignments * Lab Activity * Art Integration Activity Prepare decorative article using circles and its parts.
NOV. 25/11/2024 - 07/12/2024	13 Surface Areas And Volumes	*Explanation *Demonstration *Problem Solving *Heuristic *Inductive *Deductive	*Surface Areas Of A Combination Of Solid. *Volumes Of A Combination Of Solid.	*To obtain surface area of a circus tent. *To verify formula for volume of a cylinder. *To compare two cylinders made up from rectangular sheets of same dimension under – (a) Curved surface area (b) Total Surface Area (c) Volumes	*Consolidate the knowledge and the skill acquired. *Develop mastery of basic skills. *Think, analyze and articulate logically. * To develop artistic skill. * To develop application of knowledge in real life situations.	*Worksheets *Assignments * Lab Activity * Case study * Multidisciplinay Activity (Maths+S.St+ Art) November Pottery of Sikkim; CSA, TSA& volume of pottery.

NOV. 09/12/2024 - 14/12/2024	14 Statistics	*Explanation *Demonstration *Problem Solving *Heuristic *Inductive *Deductive Representation	* Mean (i) Direct Method (ii) Assume Mean Method (iii) Step Deviation Method *Median *Mode	*To find the means, median and median of ages of classes from V to X. *To find mean by direct, Assume mean and step deviation method of marks obtained by 40 students of class X in Mathematics PT I of 20 marks.	*Consolidate the knowledge and the skill acquired. *Develop mastery of basic skills. *Think, analyze and articulate logically. *Develop drawing skills	*Worksheets *Assignments * Lab Activity * Case study
DEC. 16/12/2024 - 20/12/2024	15 Probability	*Explanation *Demonstration *Problem Solving *Heuristic *Inductive *Deductive	*Probability	*To determine experimentally probability of 1, 2, 3, 4, 5 or 6 throwing a dice 500 times and compare them with their theoretical probabilities. *To determine experimentally probability of a Head (or Tails) by tossing a coin 1000 times and compare them with their theoretical probabilities.	*Daily life application. * Mastery on numerical skill	*Worksheets *Assignments * Lab Activity * Case study
JAN. 2025		1	1	Revision Pre- boards	I	