Annual & Weekly Syllabus Split-Up - 2026-27
Grade X

Subject: Maths

S.No	Month	No. of Working Days		No. of Days	Topic	Sub Topic	Teaching Aids/Resources	Classroom teaching Video Link	Activities	Art Integrated project	Pedagogy Process/Teaching Strategy	Chapterwise Notes link	Assessment
1	APRIL	25	Week 1	4	Real Numbers	Fundamental Theorem of Arithmetic ,	NCERT Textbook; NCERT Exemplar; CBSE Competency-Based Questions; Reference Book; ICT Tools (GeoGebra); Worksheets; Mind Maps	NA	Factor Tree Activity	Create number-based patterns using prime factors; Design artistic representations of number properties; Integration with patterns in art	Conceptual understanding; Logical reasoning; Step-by-step proof explanation; Think–Pair–Share; Focus on number properties and proof techniques	Resources (Worksheet + Mind Maps)	Formative Quiz + Worksheet
			Week 2	6		Proofs of irrationality of √2,√3,√5	NCERT Textbook; NCERT Exemplar; CBSE Competency-Based Questions; Reference Book; ICT Tools (GeoGebra); Worksheets; Mind Maps	NA		Create number-based patterns using prime factors; Design artistic representations of number properties; Integration with patterns in art	Conceptual understanding; Logical reasoning; Step-by-step proof explanation; Think–Pair–Share; Focus on number properties and proof techniques	Resources (Worksheet + Mind Maps)	Proof Writing Task + Workshee
			Week 3	5	Polynomials	Zeros of a polynomial	NCERT Textbook; NCERT Exemplar; CBSE Competency-Based Questions; Reference Book; ICT Tools (GeoGebra); Worksheets; Mind Maps	NA	Graph plotting of polynomials; Finding zeros using graphs; Practice problems on coefficients	Create curve-based designs using polynomial graphs; Artistic patterns using curves; Integration with visual arts	Visual and conceptual learning using graphs; Activity-based approach; Step-by-step explanation; Focus on linking algebra with graphs	Resources (Worksheet + Mind Maps)	Zeros Identification Quiz + Worksheet
			Week 4	6	QUADRATIC EQUATIONS	Relationship between zeros and coefficients of quadratic polynomials.	NCERT Textbook; NCERT Exemplar; CBSE Competency-Based Questions; Reference Book; ICT Tools (GeoGebra); Worksheets; Mind Maps	NA	Solve equations using different methods; Verify relationship between zeros and coefficients; Graph plotting of quadratic functions	Create parabola-based artistic designs; Pattern making using quadratic curves; Integration with real-life structures (arches, bridges)	Conceptual and application-based learning; Step-by-step derivation; Use of discriminant; Graph-based visualization; Think–Pair–Share; Focus on problem-solving and real-life application	Resources (Worksheet + Mind Maps)	Vieta's Application Test + Worksheet
			Week 5	4		Solution By factorisation and bi quadratic formula	NCERT Textbook; NCERT Exemplar; CBSE Competency-Based Questions; Reference Book; ICT Tools (GeoGebra); Worksheets; Mind Maps	NA	Solve equations using different methods; Verify relationship between zeros and coefficients; Graph plotting of quadratic functions	Create parabola-based artistic designs; Pattern making using quadratic curves; Integration with real-life structures (arches, bridges)	Conceptual and application-based learning; Step-by-step derivation; Use of discriminant; Graph-based visualization; Think–Pair–Share; Focus on problem-solving and real-life application	Resources (Worksheet + Mind Maps)	Problem Solving Quiz + Worksheet
2	JUNE	20	Week 1	0								Resources (Worksheet + Mind Maps)	
			Week 2	6	PAIR OF LINEAR EQUATIONS IN TWO VARIABLES	graphical method of their solution, consistency/inconsistency.	NCERT Textbook; NCERT Exemplar; CBSE Competency-Based Questions; Reference Book; ICT Tools (GeoGebra); Worksheets; Mind Maps	NA	Verify trigonometric identities; Solve problems based on identities; Height & distance problems (real-life application); Word problems involving angles of elevation/depression	Create coordinate-based designs using intersecting lines; Map-based activity showing intersection points; Integration with real-life planning (budget, routes)	Conceptual and problem-solving approach; Graph-based visualization; Step-by-step algebraic methods; Think–Pair–Share; Focus on real-life applications and interpretation of solutions	Resources (Worksheet + Mind Maps)	Formative Quiz + Worksheet
			Week 3	6		, by elimination. Simple situational problems.	NCERT Textbook; NCERT Exemplar; CBSE Competency-Based Questions; Reference Book; ICT Tools (GeoGebra); Worksheets; Mind Maps	NA	Verify trigonometric identities; Solve problems based on identities; Height & distance problems (real-life application); Word problems involving angles of elevation/depression	Create coordinate-based designs using intersecting lines; Map-based activity showing intersection points; Integration with real-life planning (budget, routes)	Conceptual and problem-solving approach; Graph-based visualization; Step-by-step algebraic methods; Think–Pair–Share; Focus on real-life applications and interpretation of solutions	Resources (Worksheet + Mind Maps)	Problem Solving Task + Worksheet
			Week 4	6	ARITHMETIC PROGRESSIONS	Derivation of the nth term and sum of the first n terms of AP	NCERT Textbook; NCERT Exemplar; CBSE Competency-Based Questions; Reference Book; ICT Tools (GeoGebra); Worksheets; Mind Maps	NA	Derivation & Sum Calculatio	Sequence Pattern Design	Concept Mapping, Formula Derivation, Sum Calculation & ATL Skills Development	Resources (Worksheet + Mind Maps)	Derivation Test + Worksheet
			Week 5	2	ARITHMETIC PROGRESSIONS	and their application in solving daily life problems.	NCERT Textbook; NCERT Exemplar; CBSE Competency-Based Questions; Reference Book; ICT Tools (GeoGebra); Worksheets; Mind Maps	NA	Word Problems Application	Daily Life AP Timeline	Concept Mapping, Real-Life Applications, Problem Solving & Reflection	Resources (Worksheet + Mind Maps)	Application Quiz + Worksheet
3	JULY	27	Week 1	4	Coordinate Geometry	Distance formula.	NCERT Textbook; NCERT Exemplar; CBSE Competency-Based Questions; Reference Book; ICT Tools (GeoGebra); Worksheets; Mind Maps	NA	Plotting points on Cartesian plane; Distance formula verification using graph paper; Section formula activity (midpoint of line segment); Real-life mapping (locating classroom objects using coordinates)	Design a city map/grid using coordinate plane showing roads, buildings, parks; Create rangoli/mandala using plotted points; Integration with Geography (map reading)	Experiential Learning, Inquiry-based Learning, Visual Learning, Activity-based Approach; Think–Pair–Share; Concept building from concrete (graph plotting) to abstract (formula derivation); Use of ICT tools (GeoGebra) for visualization; Focus on competency-based problem solving and real-life applicatio	Resources (Worksheet + Mind Maps)	Graph-based worksheet; Case-study questions (real-life location problems); Competency-based MCQs; Short answer test on distance & section formula; Peer assessment through map activity
			Week 2	6		Section formula (internal division).	NCERT Textbook; NCERT Exemplar; CBSE Competency-Based Questions; Reference Book; ICT Tools (GeoGebra); Worksheets; Mind Maps	NA	Activity on finding midpoint of a line segment using graph paper; Dividing a line segment in given ratio (m:n) by plotting; Verification of section formula using coordinate grid; Real-life activity: locating a point between two locations	Section Formula Practice	Experiential Learning, Activity-based Learning, Inquiry Method; Concept building from midpoint → internal division → section formula; Visual learning using graph paper and GeoGebra; Think–Pair–Share; Emphasis on conceptual clarity and competency-based application	Resources (Worksheet + Mind Maps)	Graph-based questions; Case-study (finding location between two cities); Competency-based MCQs; Short answer test on midpoint & section formula; Peer assessment through activi
			Week 3	6	TRIANGLES	Basic Propotionality Theorm	NCERT Textbook; NCERT Exemplar; CBSE Competency-Based Questions; Reference Book; ICT Tools (GeoGebra); Worksheets; Mind Maps	NA	Draw triangle and a line parallel to one side; measure segments and verify proportionality (AD/DB = AE/EC); Paper folding activity to observe parallel lines; Use ruler to check ratios	Create Warli art or geometric patterns using triangles and parallel lines; Design a bridge/roof structure showing proportional division; Integration with Art & Architecture	Activity-based Learning, Experiential Learning, Proof-based reasoning; Start from observation → measurement → pattern → theorem statement; Think–Pair–Share; Visual demonstration using diagrams and GeoGebra; Focus on logical reasoning and concept clarity	Resources (Worksheet + Mind Maps)	Proof-based questions; Case-study (real-life proportional division); Competency-based MCQs; Diagram-based questions; Short test on theorem application
			Week 4	6		Similarity creterias (Without proof)	NCERT Textbook; NCERT Exemplar; CBSE Competency-Based Questions; Reference Book; ICT Tools (GeoGebra); Worksheets; Mind Maps	NA	Compare two triangles using cut-outs (AAA); Measure sides to verify SAS & SSS similarity; Group activity to identify similar shapes in classroom objects; Scale factor activity using grid paper	Create Warli art or geometric patterns using triangles and parallel lines; Design a bridge/roof structure showing proportional division; Integration with Art & Architecture	Experiential Learning, Activity-based Learning, Visual comparison method; Concept building through observation → comparison → criteria formation; Think–Pair–Share; Use of GeoGebra for dynamic similarity; Focus on real-life application and competency-based understanding	Resources (Worksheet + Mind Maps)	Diagram-based questions; Case-study (scale models); Competency-based MCQs; Short answer questions identifying similarity criteria; Peer assessment through activity
			Week 5	5	CIRCLES	Terminolgies and therom related to circles	NCERT Textbook; NCERT Exemplar; CBSE Competency-Based Questions; Reference Book; ICT Tools (GeoGebra); Worksheets; Mind Maps	NA	Identify parts of circle (radius, diameter, chord, arc, sector) using diagrams; Draw tangents and verify properties; Activity to check "radius ⊥ tangent at point of contact"; Group task on identifying circle properties in real-life objects (clock, wheel)	Mandala art using circles and concentric designs; Create rangoli using chords and arcs; Integration with Art & Architecture (domes, wheels, designs)	Experiential Learning, Visual Learning, Activity-based approach; Concept building from basic terminology → observation → theorem understanding; Use of diagrams and GeoGebra; Think–Pair–Share; Emphasis on theorem application and reasoning skills	Resources (Worksheet + Mind Maps)	Diagram-based questions; Assertion–Reason questions; Competency-based MCQs; Short answer test on terminology & theorems; Peer assessment through drawing activity

4	AUGUST	24	Week 1	1		Question Practise	NCERT Textbook; NCERT Exemplar; CBSE Competency-Based Questions; Reference Book; ICT Tools (GeoGebra); Worksheets; Mind Maps	NA	Identify parts of circle (radius, diameter, chord, arc, sector) using diagrams; Draw tangents and verify properties; Activity to check "radius ⊥ tangent at point of contact"; Group task on identifying circle properties in real-life objects (clock, wheel)	Mandala art using circles and concentric designs; Create rangoli using chords and arcs; Integration with Art & Architecture (domes, wheels, designs)		Resources (Worksheet + Mind Maps)	
			Week 2	6		Question Practise	NCERT Textbook; NCERT Exemplar; CBSE Competency-Based Questions; Reference Book; ICT Tools (GeoGebra); Worksheets; Mind Maps	NA	Identify parts of circle (radius, diameter, chord, arc, sector) using diagrams; Draw tangents and verify properties; Activity to check "radius ⊥ tangent at point of contact"; Group task on identifying circle properties in real-life objects (clock, wheel)	Mandala art using circles and concentric designs; Create rangoli using chords and arcs; Integration with Art & Architecture (domes, wheels, designs)		Resources (Worksheet + Mind Maps)	
			Week 3	5	INTRODUCTION TO TRIGONOMETRY	Define Trignometric functions	NCERT Textbook; NCERT Exemplar; CBSE Competency-Based Questions; Reference Book; ICT Tools (GeoGebra); Worksheets; Mind Maps	NA				Resources (Worksheet + Mind Maps)	
			Week 4	6		Define Value of function at specific angles	NCERT Textbook; NCERT Exemplar; CBSE Competency-Based Questions; Reference Book; ICT Tools (GeoGebra); Worksheets; Mind Maps	NA	Introduction of trigonometric ratios using right triangle; Activity: measuring sides and calculating sin, cos, tan; Table learning (0°, 30°, 45°, 60°, 90°); Identify trigonometry in real-life (ladder, shadow	Create triangle-based rangoli showing different angles; Design models of ladders/buildings showing angles; Integration with Architecture	Experiential Learning, Activity-based Learning, Concept building through observation → ratio formation; Visual Learning using diagrams; Think–Pair–Share; Focus on conceptual clarity of ratios and angle relationships	Resources (Worksheet + Mind Maps)	MCQs on ratios; Short answer questions; Oral assessment on values; Worksheet
			Week 5	5+1		Trignometric Idebtities	NCERT Textbook; NCERT Exemplar; CBSE Competency-Based Questions; Reference Book; ICT Tools (GeoGebra); Worksheets; Mind Maps	NA	Verify trigonometric identities; Solve problems based on identities; Height & distance problems (real-life application); Word problems involving angles of elevation/depression	Design a height measurement project (tree/building using shadows); Create real-life survey model; Integration with Physics (angles, measurement)	Problem-solving Approach, Inquiry-based Learning; Application-based teaching; Use of real-life examples; ICT tools (GeoGebra); Focus on competency-based questions and logical reasoning	Resources (Worksheet + Mind Maps)	Case-based questions; Numerical problems; Competency-based MCQs; Short test + assignment
5	SEPTEMBER	23	Week 1	5	Term 1							Resources (Worksheet + Mind Maps)	
			Week 2	6								Resources (Worksheet + Mind Maps)	
			Week 3	5								Resources (Worksheet + Mind Maps)	
			Week 4	5	Application of trignometry	Application of trignometry	NCERT Textbook; NCERT Exemplar; CBSE Competency-Based Questions; Reference Book; ICT Tools (GeoGebra); Worksheets; Mind Maps	NA	Measure height of school building/tree using shadow method; Activity using clinometer (angle of elevation); Solve real-life problems based on ladder, tower, pole; Identify angles of elevation & depression in surroundings	Create a model showing tower and observer with angles; Design real-life survey project (measuring height using trigonometry); Integration with Geography (land measurement) & Physics (angles)	Experiential Learning, Real-life Application, Inquiry-based Learning; Concept building from observation (angle) → triangle formation → trigonometric ratios; Use of diagrams and ICT tools (GeoGebra); Think–Pair–Share; Focus on competency-based problem solving and visualization	Resources (Worksheet + Mind Maps)	Case-study questions; Numerical problems; Competency-based MCQs; Diagram-based questions; Short test + assignment
			Week 5	3		Application of trignometry	NCERT Textbook; NCERT Exemplar; CBSE Competency-Based Questions; Reference Book; ICT Tools (GeoGebra); Worksheets; Mind Maps	NA				Resources (Worksheet + Mind Maps)	
6	OCTOBER	25	Week 1	2	AREAS RELATED TO CIRCLES		NCERT Textbook; NCERT Exemplar; CBSE Competency-Based Questions; Reference Book; ICT Tools (GeoGebra); Worksheets; Mind Maps	NA	Calculate area of circle using real objects (plate, coin); Activity on sector and segment area using paper cutting; Divide circle into equal sectors and rearrange to understand area concept; Solve problems on combination of figures (semicircle, quadrant)	Pizza design activity (finding area of slices/sectors); Rangoli/mandala design using sectors and concentric circles; Integration with Art & Daily Life (design patterns, food portions)	Experiential Learning, Activity-based Learning, Conceptual understanding through visualization; Concept building from circle → sector → segment → combination of figures; Use of diagrams and ICT tools (GeoGebra); Think–Pair–Share; Focus on application-based and competency-based learning	Resources (Worksheet + Mind Maps)	Case-study questions; Numerical problems on sector & segment; Competency-based MCQs; Diagram-based questions; Worksheet + short test
			Week 2	6				NA				Resources (Worksheet + Mind Maps)	
			Week 3	6	SURFACE AREAS AND VOLUMES	SURFACE AREAS AND VOLUMES	NCERT Textbook; NCERT Exemplar; CBSE Competency-Based Questions; Reference Book; ICT Tools (GeoGebra); Worksheets; Mind Maps	NA	Model making of 3D shapes (cube, cuboid, cylinder, cone, sphere); Activity on converting one solid into another (e.g., cylinder → cone); Measure real objects (bottle, box) to calculate surface area & volume; Net drawing of solids	Create clay/paper models of solids; Design packaging boxes (cuboid/cylinder); Integration with Art & Daily Life (containers, storage design)	Experiential Learning, Activity-based Learning, Visual Learning; Concept building from 2D (nets) → 3D shapes → formulas → application; Use of real-life objects and ICT tools (GeoGebra/3D models); Think–Pair–Share; Focus on conceptual clarity and competency-based problem solving	Resources (Worksheet + Mind Maps)	Case-study questions; Numerical problems on TSA/CSA/Volume; Competency-based MCQs; Practical/lab activity (model-based); Worksheet + short test
			Week 4	5		SURFACE AREAS AND VOLUMES		NA				Resources (Worksheet + Mind Maps)	
			Week 5	5	Statistics	Mean	NCERT Textbook; NCERT Exemplar; CBSE Competency-Based Questions; Reference Book; ICT Tools (GeoGebra); Worksheets; Mind Maps	NA	Collect real-life data (class test marks, heights, survey); Create grouped frequency table; Calculate mean (direct & assumed mean method); Draw histogram and ogive; Find median graphically	Create charts/graphs (bar graph, histogram) using collected data; School survey project (favourite subject, sports); Integration with Social Science (data interpretation)	Experiential Learning, Data-driven Learning, Activity-based approach; Concept building from raw data → tabulation → graphical representation → mean/median; Use of ICT tools (Excel/GeoGebra); Think–Pair–Share; Focus on analytical thinking and competency-based questions	Resources (Worksheet + Mind Maps)	Case-study questions; Data interpretation MCQs; Numerical problems (mean, median); Graph-based questions; Project + Viva + Worksheet
7	NOVEMBER	12	Week 1	0		Median , Mode		NA				Resources (Worksheet + Mind Maps)	
			Week 2	0	Probablity	Classical definition	NCERT Textbook; NCERT Exemplar; CBSE Competency-Based Questions; Reference Book; ICT Tools (GeoGebra); Worksheets; Mind Maps	NA	Perform experiments with coin, dice, and cards; Record outcomes and find probability; Activity on listing sample space; Real-life examples (weather prediction, games); तुलना of theoretical vs experimental probability	Design a probability-based game (cards/dice); Create spinner models with coloured sectors; Integration with Art (designing game boards) and Daily Life (games of chance)	Experiential Learning, Activity-based Learning, Inquiry approach; Concept building from experiment → outcome → probability; Use of real-life examples and ICT tools; Think–Pair–Share; Focus on logical reasoning and competency-based understanding	Resources (Worksheet + Mind Maps)	Case-study questions; Competency-based MCQs; Numerical problems; Short test; Project (designing game); Worksheet
			Week 3	0									
			Week 4	6	PB 1								
			Week 5	5+1									
8	DECEMBER	21	Week 1	5									
			Week 2	6	PB 2								
			Week 3	6									
			Week 4	4	Practice Test								
			Week 5	3									
9	JANUARY	22	Week 1	0									
			Week 2	6	PB 3								
			Week 3	5									
			Week 4	6									
			Week 5	5									
10	FEBRUARY	23	Week 1	6									
			Week 2	6									
			Week 3	5	Annual Exam								
			Week 4	6									
			Week 5	NA									

11	MARCH	17	Week 1	5	Annual Exam									
			Week 2	6										
			Week 3	6										
			Week 4	5										
			Week 5	3										