CLASS 10 MATHEMATICS — LO's Aligned Monthly Split-up Syllabus (April 2026–March 2027) + Portion Boundaries + Exams + Weightage + Question Paper Design + Blueprint (For CM SoE & NON-SoE)

Developed by:- Jharkhand Council Of Educational Research & Training (Curriculum Division)

Month	Teaching Days (Available)	NCERT Chapter Titles	Sub-topics / Portion Boundary	LOs (*LO Mapping - IDs) (NCERT Secondary Stage LO-2019)	Practicals / Activities (Minimum)	Assessment / Exams
Apr 2026	24	Chapter 1 Real Numbers; Chapter 2 Polynomials	Fundamental Theorem of Arithmetic, prime factorisation-based applications, irrational numbers and revisiting zeroes of polynomials with algebraic-graphical relationship. Portion boundary: Chapters 1–2 complete.	M1, M2	Prime factorisation drill, theorem-based examples, polynomial graphing, worksheet and oral reasoning.	Project RAIL (April portion): 05-05-2026
May 2026	14	Chapter 3 Pair of Linear Equations in Two Variables	Graphical and algebraic solution methods, consistency of equations, real-life problem solving. Portion boundary: Chapter 3 complete.	M3	Graph plotting, elimination/substitution practice, word problems and peer explanation.	Project RAIL (May portion): 16-06-2026
Jun 2026	12	Chapter 4 Quadratic Equations; Chapter 5 Arithmetic Progressions (Start)	Roots and nature of roots, factorisation and quadratic formula; introduction to arithmetic progression and nth term. Portion boundary: Chapter 4 complete; Chapter 5 started.	M4, M5	Quadratic formula drill, factorisation practice, AP pattern observation and revision worksheet.	Project RAIL (June portion): 07-07-2026
Jul 2026	23	Chapter 5 Arithmetic Progressions (Finish); Chapter 6 Triangles	nth term and sum of n terms of AP; similarity of triangles, Basic Proportionality Theorem and related proofs. Portion boundary: Chapters 5–6 complete.	M5, M6, M7	AP application problems, theorem proof practice, triangle similarity charts and discussion.	Project RAIL (July portion): 04-08-2026
Aug 2026	22	Chapter 7 Coordinate Geometry; Chapter 8 Introduction to Trigonometry	Distance formula basics on coordinate plane, section concept, trigonometric ratios and identities. Portion boundary: Chapters 7–8 complete.	M8, M9	Coordinate plane plotting, ratio tables, identity verification and half-yearly revision.	Half Yearly Examination: 07-09-2026 to 12-09-2026 (covers Apr–Aug taught portion)
Sep 2026	14	Chapter 9 Some Applications of Trigonometry; Chapter 10 Circles	Heights and distances, tangents to a circle, theorem-based reasoning and diagrams. Portion boundary: Chapters 9–10 complete.	M9, M10	Height-distance word problems, tangent proofs, diagram practice and answer-improvement.	Project RAIL (September portion): 06-10-2026
Oct 2026	21	Chapter 11 Areas Related to Circles	Arc length, sector area, segment area and combined area problems. Portion boundary: Chapter 11 complete.	M13	Sector-area numericals, circle-area comparison, diagram-based problem solving and peer correction.	Project RAIL (October portion): 03-11-2026
Nov 2026	16	Chapter 12 Surface Areas and Volumes; Chapter 13 Statistics; Chapter 14 Probability	Combination of solids, surface area and volume applications, mean/median/mode, cumulative frequency and elementary probability. Portion boundary: Full mathematics syllabus completed by Nov 2026.	M13, M14, M15	Model-based solids discussion, statistics tables/graphs, probability experiments and full-syllabus quick revision.	Syllabus completion target for Class 10: Nov 2026
Dec 2026	15	Full Syllabus Revision + Competency-Based Practice	Complete revision of Chapters 1–14 with proofs, graphs, trigonometry, case-based items and mixed numericals. Syllabus completion target: Dec 2026.	M1 to M15	2 model papers, error-analysis notebook, revision sheets and remedial groups.	Pre-Board + Remedial + Practice: 07-12-2026 to 12-12-2026 (Full syllabus)
Jan 2027	17					

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Feb 2027	18	FULL REVISION + SAMPLE PAPERS + REMEDIAL
Mar 2027	20	

LOs (*LO Mapping - IDs) (NCERT Secondary Stage LO-2019)

LO ID	NCERT Learning Outcome
M1	generalises properties of numbers and relations among them studied earlier to evolve results, such as, Euclid's division algorithm, Fundamental Theorem of Arithmetic and applies them to solve problems related to real life contexts.
M2	develops a relationship between algebraic and graphical methods of finding the zeroes of a polynomial.
M3	finds solutions of pairs of linear equations in two variables using graphical and different algebraic methods.
M4	demonstrates strategies of finding roots and determining the nature of roots of a quadratic equation.
M5	develops strategies to apply the concept of A.P. to daily life situations.
M6	works out ways to differentiate between congruent and similar figures.
M7	establishes properties for similarity of two triangles logically using different geometric criteria established earlier such as, Basic Proportionality Theorem, etc.
M8	derives formulae to establish relations for geometrical shapes in the context of a coordinate plane, such as, finding the distance between two given points, to determine the coordinates of a point between any two given points, to find the area of a tr
M9	determines all trigonometric ratios with respect to a given acute angle (of a right triangle) and uses them in solving problems in daily life contexts like finding heights of different structures or distance from them.
M10	derives proofs of theorems related to the tangents of circles.
M11	constructs a triangle similar to a given triangle as per a given scale factor and a pair of tangents from an external point to a circle and justify the procedures.
M12	examines the steps of geometrical constructions and reason out each step.
M13	finds surface areas and volumes of objects in the surroundings by visualising them as a combination of different solids like cylinder and a cone, cylinder and a hemisphere, combination of different cubes, etc.
M14	calculates mean, median and mode for different sets of data related with real life contexts.
M15	determines the probability of an event and applies the concept in solving daily life problems.

A. THEORY BLUEPRINT

S.No.	Unit / Section / Chapter Block	Marks	Prescribed Chapters / Scope
1	Number Systems	06	Chapter 1 Real Numbers.
2	Algebra	20	Chapter 2 Polynomials; Chapter 3 Pair of Linear Equations; Chapter 4 Quadratic Equations; Chapter 5 Arithmetic Progressions.
3	Coordinate Geometry	06	Chapter 7 Coordinate Geometry.
4	Geometry	15	Chapter 6 Triangles; Chapter 10 Circles.
5	Trigonometry	12	Chapter 8 Introduction to Trigonometry; Chapter 9 Some Applications of Trigonometry.

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6	Mensuration	10	Chapter 11 Areas Related to Circles; Chapter 12 Surface Areas and Volumes.
7	Statistics and Probability	11	Chapter 13 Statistics; Chapter 14 Probability.
	TOTAL	**80**	

B. COMPETENCY-WISE QUESTION PAPER DESIGN

Competency	**Weightage**
Remembering & Understanding	40%
Application	35%
Analysis / Reasoning	25%
TOTAL	100%

C. INTERNAL ASSESSMENT / SCHOOL-BASED COMPONENTS

S.No.	**Component**	**Marks**
1	Periodic Test	5
2	Multiple Assessment	5
3	Portfolio / Notebook	5
4	Mathematics Activities / Lab Work	5
	TOTAL	**20**