



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-2017)	Practicals / Activities (Minimum)	Assessment / Exams (प्रश्न पत्र एवं उत्तर कुंजिका निर्माण)
Apr 2026	24	Chapter 1 Real Numbers; Chapter 2 Polynomials	Euclid's division lemma, Fundamental Theorem of Arithmetic, irrational numbers, revisiting zeroes of polynomials and algebraic-graphical relationship. Portion boundary: Chapters 1–2 complete.	M1, M2, M12	Prime factorisation drill, theorem-based examples, polynomial graphing, worksheet and oral reasoning.	Project RAIL (April portion): 05-05-2026 DIET Hazaribag एवं DIET Jamtara
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, M8, M12	Graph plotting, elimination/substitution practice, word problems and peer explanation.	Project RAIL (May portion): 16-06-2026 DIET Latehar एवं DIET Lohardaga
Jun 2026	12	Chapter 4 Quadratic Equations; Chapter 5 Arithmetic Progressions (Start)	Roots and nature of roots, factorisation, completing square, quadratic formula; introduction to arithmetic progression and nth term. Portion boundary: Chapter 4 complete; Chapter 5 started.	M4, M5, M12	Quadratic formula drill, graphical interpretation, AP pattern observation and revision worksheet.	Project RAIL (June portion): 07-07-2026 DIET Ramgarh एवं DIET Ranchi
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, M12	AP application problems, theorem proof practice, triangle similarity charts and discussion.	Project RAIL (July portion): 04-08-2026 DIET Simdega एवं DIET W-Singhbhum
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, M12	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, M12	Height-distance word problems, tangent proofs, diagram practice and answer-improvement.	Project RAIL (September portion): 06-10-2026 DIET Deoghar एवं DIET Dhanbad
Oct 2026	21	Chapter 11 Constructions; Chapter 12 Areas Related to Circles	Construction of similar triangles and tangents; arc length, sector area and combined area problems. Portion boundary: Chapters 11–12 complete.	M7, M10, M11, M12	Geometrical construction file work, compass practice, sector-area numericals and peer correction.	Project RAIL (October portion): 03-11-2026 DIET Garhwa एवं DIET Giridih
Nov 2026	16	Chapter 13 Surface Areas and Volumes; Chapter 14 Statistics; Chapter 15 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.	M9, M10, M11, M12	Model-based solids discussion, statistics tables/graphs, probability experiments and full-syllabus quick revision.	Syllabus completion target for Class 12: Nov 2026
Dec 2026	15	Full Syllabus Revision + Competency-Based Practice	Complete revision of Chapters 1–15 with proofs, constructions, graphs, case-based items and mixed numericals. Syllabus completion target: Dec 2026.	M1 to M12	2 model papers, construction practice, 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-2017)

LO ID	NCERT Learning Outcome
M1	applies logical reasoning in classifying real numbers, proving their properties and using them in different situations.
M2	identifies/classifies polynomials among algebraic expressions and factorises them by applying appropriate algebraic identities.
M3	relates the algebraic and graphical representations of a linear equation in one or two variables and applies the concept to daily life situations.
M4	identifies similarities and differences among different geometrical shapes.
M5	derives proofs of mathematical statements particularly related to geometrical concepts, like parallel lines, triangles, quadrilaterals, circles, etc., by applying axiomatic approach and solves problems using them.
M6	finds areas of all types of triangles by using appropriate formulae and apply them in real life situations.
M7	constructs different geometrical shapes like bisectors of line segments, angles and triangles under given conditions and provides reasons for the processes of such constructions.
M8	develops strategies to locate points in a Cartesian plane.
M9	identifies and classifies the daily life situations in which mean, median and mode can be used.
M10	analyses data by representing it in different forms like, tabular form (grouped or ungrouped), bar graph, histogram (with equal and varying width and length), and frequency polygon.
M11	derives formulae for surface areas and volumes of different solid objects like, cubes, cuboids, right circular cylinders/ cones, spheres and hemispheres and applies them to objects found in the surroundings.
M12	solves problems that are not in the familiar context of the child using above learning. These problems should include the situations to which the child is not exposed earlier.

QUESTION PAPER DESIGN / BLUEPRINT

A. THEORY BLUEPRINT (SUGGESTED SCHOOL-READY)

S.No.	Unit / Section / Chapter Block	Marks	Prescribed Chapters / Scope
1	Number Systems and Algebra	24	Chapter 1 Real Numbers; Chapter 2 Polynomials; Chapter 3 Pair of Linear Equations; Chapter 4 Quadratic Equations; Chapter 5 Arithmetic Progressions.
2	Geometry and Coordinate Geometry	22	Chapter 6 Triangles; Chapter 7 Coordinate Geometry; Chapter 10 Circles; Chapter 11 Constructions.
3	Trigonometry	12	Chapter 8 Introduction to Trigonometry; Chapter 9 Some Applications of Trigonometry.
4	Mensuration	10	Chapter 12 Areas Related to Circles; Chapter 13 Surface Areas and Volumes.
5	Statistics and Probability	12	Chapter 14 Statistics; Chapter 15 Probability.
	TOTAL	80	Suggested annual written paper.

B. COMPETENCY-WISE QUESTION PAPER DESIGN

Competency	Weightage
Remembering & Understanding	40%



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Application	35%
Analysis / Reasoning	25%
TOTAL	100%

C. QUESTION TYPOLOGY

Component	Details
Objective / VSA	Formula recall, direct computation, graph / figure reading.
Short Answer	Algebraic solving, theorem application, coordinate work, constructions.
Long Answer	Application-based, reasoning-based and multi-step numerical questions.
Internal Choice	To be kept as per school / board-style annual paper.

D. 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