Punjab Education, Curriculum, Training & Assessment Authority SMART / REDUCED SYLLABUS OF MATHEMATICS GRADE-9 (REVISED)

To facilitate students, the content of *Mathematics*—9 has been rationalized and reduced from the compulsory textbook. This rationalization aims to help students focus on the key Student Learning Outcomes (SLOs) that are essential for conceptual understanding and examination preparation, rather than covering the entire textbook. It clearly specifies the exercises, examples, and questions excluded from the *Mathematics Grade* 9 syllabus for the annual examination-2026. Teachers and students are advised to follow this Smart / Reduced Syllabus for effective teaching, learning, and exam preparation. The unit-wise Smart / Reduced Syllabus is provided below.

Name of the Unit	Skipped / Excluded Content of Mathematics-9 (Revised)
1-Real Numbers	 1.1 Introduction to Real Numbers; Page # 1 to 3. 1.3 Applications of Real Numbers in Daily Life; Page # 14 to 15. 1.3.1 Temperature Conversion, Example # 10; Page # 15 to 16. 1.3.2 Profit and Loss, Examples # 11 to 14; Page # 16 to 18. Exercise # 1.3 (Complete); Page # 18 to 19. Review Exercise 1: Q # 3, 8 to 10; Page # 20 (Revised)
2-Logarithms	 2.4 Laws of Logarithm, Examples # 12 to 15; Page # 30 to 34. Exercise # 2.4 (Complete); Page # 34 to 35. Review Exercise 2: Q # 1 (iv, ix, x), Q # 6 (ii, iii), Q # 7 to 10; Page # 35 to 36 (Revised)
3-Sets and Functions	 Introduction; Page # 37.
4- Factorization and Algebraic Manipulation	 4.4 Square Root of an Algebraic Expression, Examples # 26 & 27; Page # 77 to 78. 4.4.1 Real World Problems of Factorization, Examples # 28 to 30; Page # 78 & 79. Exercise # 4.4 (Complete); Page # 79 to 80. Review Exercise 4: Q # 1 (vi), Q # 4 & 5; Page # 81.

5-Linear	• 5.3 Feasible Solution, Example # 6; Page # 91-92.
equations and Inequalities	• 5.3.2 Maximum and Minimum Values of a Function in the Feasible Solution, Example # 7; Page # 93-94.
	• Exercise # 5.2 (Complete); Page # 94 to 95.
	• Review Exercise 5: Q # 1 (vii, ix & x), Q # 3 to 5; Page # 95 to 96. (Revised)
6- Trigonometry	• Example 12; Page # 109. www.stepacademyofficial.com
,	 Exercise # 6.3, Q # 10 to 12; Page # 111. Exercise # 6.4, Q # 2 (vii & viii), Q # 3 (iii); Page # 113.
	• Exercise # 6.4, Q # 2 (vii & viii), Q # 3 (iii), 1 age # 113. • Exercise # 6.5, Q # 5, 6 & 9; Page # 117 to 118.
	• 6.6 The Angle of Elevation and the Angle of Depression, Examples #
	19 & 20; Page # 118 to 119. • Exercise # 6.6 (Complete); Page # 120.
	 Review Exercise 6: Q # 1(iii), Q # 3 (iii to vi), Q # 5 & 6; Page # 121-
	122. (Revised)
7-Coordinate	• Exercise # 7.1, Q # 6, 9 & 10; Page # 128.
Geometry	• Exercise # 7.2, Q # 2 (iii, iv), Q # 12 & 13; Page # 140 to 141.
	• 7.3 Applications of Coordinate Geometry in Real Life Situations, Examples # 14, 15, 16, 17, 18, 19, 20; Page # 141 to 144.
	• Exercise # 7.3 (Complete); Page # 144 to 145.
	• Review Exercise 7: Q # 4 to 10; Page # 146.
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8-Logic	Complete chapter is excluded.
9-Similar	Complete chapter is excluded. • Exercise # 9.1, Q # 8 & 9; Page # 166.
9-Similar	• Exercise # 9.1, Q # 8 & 9; Page # 166.
9-Similar	 Exercise # 9.1, Q # 8 & 9; Page # 166. Exercise # 9.2, Q # 5 & 8; Page # 172. 9.4 Geometrical Properties of Polygon and their applications; Page #
9-Similar	 Exercise # 9.1, Q # 8 & 9; Page # 166. Exercise # 9.2, Q # 5 & 8; Page # 172. 9.4 Geometrical Properties of Polygon and their applications; Page # 177. www.stepacademyofficial.com
9-Similar	 Exercise # 9.1, Q # 8 & 9; Page # 166. Exercise # 9.2, Q # 5 & 8; Page # 172. 9.4 Geometrical Properties of Polygon and their applications; Page # 177. www.stepacademyofficial.com 9.4.1 Geometrical Properties of Regular Polygon; Page # 177-178.
9-Similar	 Exercise # 9.1, Q # 8 & 9; Page # 166. Exercise # 9.2, Q # 5 & 8; Page # 172. 9.4 Geometrical Properties of Polygon and their applications; Page # 177. www.stepacademyofficial.com 9.4.1 Geometrical Properties of Regular Polygon; Page # 177-178. 9.4.2 Geometrical Properties of Triangle; Page # 178. 9.4.3 Geometrical Properties of Parallelogram, Example # 13;
9-Similar	 Exercise # 9.1, Q # 8 & 9; Page # 166. Exercise # 9.2, Q # 5 & 8; Page # 172. 9.4 Geometrical Properties of Polygon and their applications; Page # 177. www.stepacademyofficial.com 9.4.1 Geometrical Properties of Regular Polygon; Page # 177-178. 9.4.2 Geometrical Properties of Triangle; Page # 178. 9.4.3 Geometrical Properties of Parallelogram, Example # 13; Page # 178.
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9-Similar Figures	 Exercise # 9.1, Q # 8 & 9; Page # 166. Exercise # 9.2, Q # 5 & 8; Page # 172. 9.4 Geometrical Properties of Polygon and their applications; Page # 177. www.stepacademyofficial.com 9.4.1 Geometrical Properties of Regular Polygon; Page # 177-178. 9.4.2 Geometrical Properties of Triangle; Page # 178. 9.4.3 Geometrical Properties of Parallelogram, Example # 13; Page # 178. 9.4.4 Applications of Polygon, Examples # 14 to 18; Page # 179 to 181. Exercise # 9.4 (Complete); Page # 182. Review Exercise 9: Q # 1 (iv, vi to x), Q # 2, 4, 7 to 9; Page # 183 to 184 (Revised) 10.2 Exponential Growth / Decay of a Practical Phenomenon through its Graph, Example # 12; Page # 193-194. 10.2.1 Gradients of Curves by Drawing Tangents, Example # 13; Page
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11-Loci and Construction	 11.5.2 Intersection of Loci, Examples # 10 to 12; Page # 209 to 211. 11.6 Real Life Application of Loci; Page # 211. Exercise # 11.2 (Complete); Page # 212 to 213. Review Exercise 11: Q # 1 (x), Q # 2 to 8 Page # 214 (Revised)
12- Information Handling	 Exercise # 12.1: Q # 8; Page # 224. 12.2.4 Weighted Mean, Examples # 19 & 20; Page # 234 to 235. Exercise # 12.2: Q # 11(ii), Q # 13 to 20; Page # 238 to 239 (Revised) Review Exercise 12: Q # 7 & 12; Page # 241 to 242.
13-Probability	 13.6 Expected Frequency, Example # 11; Page # 255. 13.7 Real Life Application on Expected Frequency, Examples # 12 & 13; Page # 255 to 256. Exercise # 13.2, Q # 5 to 8; Page # 257. Review Exercise 13: Q # 1 (v), Q # 2 (ii), Q # 3 to 7; Page # 258 to 259 (Revised)

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