

### Syllabus / SLOs Coverage plan ( 2022-23)

Grade:	IX			Subject:	Mathematics		
Week	# of Working days	From--T0	Chapter 1	Date	Topics	%	Review
#		April - 2022.					
1	5	3 to 7	Matrices and Determinants	.April-3	UNIT 1, 1.1 Introduction	2%	
				.April-4	1.2 Types of Matrices		
				.April-5	1.3 Addition and Subtraction of Matrices		
				.April-6	Properties of Matrices, Commutative and Associative Property		
				.April-7	1.4 Multiplication of Matrices		
Week	# of Working days	From--T0	Chapter 1	Date	Topics	%	Review
#		April - 2022.					
2	5	10 to 14	Matrices and Determinants	.April-10	Transpose and Inverse properties. Ex questions +Exam style questions worksheet	4%	
				.April-11	1.5 Multiplicative Inverse of a Matrix		
				.April-12	Commutative Law of Matrices with respect to Multiplication		
				.April-13	1.6 Solution of Simultaneous Linear Equations by Matrix inversion method		
				.April-14	1.6 Solution of Simultaneous Linear Equations by Cramer,s Rule		
Week	# of Working days	From--T0	Chapter 1, 10, 2	Date	Topics	%	Review
#		April - 2022.					
3	5	17 to 21	Chapter 1, 10, 2	.April- 17	1.6 Solution of Simultaneous Linear Equations word Problems	5%	
REAL NUMBERS				.April- 18	Unit 10, 10.1, Congruent Triangles		
				.April- 19	10.2, Congruent Triangles		
				.April- 20	Ex 10.1, 10.2.		
				.April- 21	Unit 2, REAL NUMBERS,2.2 Properties of Real Numbers,2.3 Radicals and Radicands		

Week	# of Working days	From--T0	Chapter 2	Date	Topics	%	Review
#		April - 2022.					
4	5	24 to 28	REAL AND COMPLEX NUMBERS	.April- 24	2.4 Laws of Exponents/Indices	6%	
				.April- 25	2.4 Application of Laws of Exponents/Indices		
				.April- 26	2.5 Complex Numbers Introduction		
				.April- 27	Basic Operation on Complex Numbers, Addition and subtraction		
				.April- 28	Basic Operation on Complex Numbers, Multiplication and division		

Week	# of Working days	From--T0	Chapter 2	Date	Topics	%	Review
#		May - 2022.					
5	2	01 to 5	REAL AND COMPLEX NUMBERS	.May-1	Review 2 + Exam style questions and Objective worksheet.	8%	
				.May-2	Monthly Test		
				.May-3	Eidul Fitr- Holidays		
				.May-4			
				.May-5			

Week	# of Working days	From--T0	Chapter 3	Date	Topics	%	Review
#		May - 2022.					
6	5	8 to 12	LOGARITHMS	.May - 8	3.1 Scientific Notation	9%	
				.May - 9	3.2 Logarithm		
				.May - 10	3.3 Common and Natural Logarithm		
				.May - 11	3.4 Laws of Logarithm		
				.May - 12	Laws of Logarithm		

Week	# of Working days	From--T0	Chapter 3, 10	Date	Topics	%	Review
------	-------------------	----------	---------------	------	--------	---	--------

#		May - 2022.					
7	5	15 to 19	LOGARITHMS	.May- 15	3.5 Application of Logarithm	10%	
				.May- 16	3.5 Application of Logarithm		
				.May- 17	3.5 Application of Logarithm		
				.May- 18	Unit 10: 10.3 Congruent Triangles		
				.May- 19	10.4 Congruent Triangles		
Week	# of Working days	From--T0	Chapter 4	Date	Topics	%	Review
#		May - 2022.					
8	5	22 to 26	ALGEBRAIC EXPRESSIONS AND ALGEBRAIC FORMULAS	.May- 22	UNIT 4 ALGEBRAIC EXPRESSIONS AND ALGEBRAIC FORMULAS	12%	
				.May- 23	4.1. Factorisation of Algebraic expressions		
				.May- 24	Addition of Algebraic Fractions		
				.May- 25	Subtraction of Algebraic Fractions		
				.May- 26	Multiplication and division of Algebraic Fractions		
Week	# of Working days	From--T0	Chapter 4	Date	Topics	%	Review
#		May/ June - 2022					
9	5	29 to 2	ALGEBRAIC EXPRESSIONS AND ALGEBRAIC FORMULAS	.May-29	4.2 Algebraic Formulae of square	15%	
				.May-30	4.2 Algebraic Formulae of square		
				.May-31	4.2 Algebraic Formulae of square		
				.June-1	4.2 Algebraic Formulae of Cube		
				.June-2	4.2 Algebraic Formulae of Cube		

Week	# of Working days	From--T0	Chapter 4	Date	Topics	%	Review
#		June - 2022.					
10	5	5 to 9	ALGEBRAIC	.June-5	4.3 Surds and their Application		
				.June-6	4.3 Surds and their Application		

			EXPRESSIONS AND ALGEBRAIC FORMULAS	.June-7	4.4 Rationalization	18%	
				.June-8	4.4 Rationalization		
				.June-9	4.4 Rationalization		
Summer Vacation							
Week	# of Working days	From--T0	Chapter 11	Date	Topics	%	Review
#		August - 2022.					
11	3	2 to 4	PARALLELOGRAMS AND TRIANGLES	.August-2	UNIT 11, PARALLELOGRAMS AND TRIANGLES	20%	
				.August-3	Theorem11.1 Properties of parallelograms		
				.August-4	Theorem 11.2 Properties of parallelograms		
Week	# of Working days	From--T0	Chapter 11	Date	Topics	%	Review
#		August - 2022.					
12	4	7 to 11	PARALLELOGRAMS AND TRIANGLES	.August-7	Ashoora -Holiday		
				.August-8	Ex 11.1, 11.2. Properties of parallelograms		24%
				.August-9	Theorem 11.3Properties of Triangles		
				.August-10	Theorem 11.4 Properties of Triangles		
				.August-11	Theorem 11.5 Properties of Triangles		

Week	# of Working days	From--T0	Chapter 5	Date	Topics	%	Review	
#		August - 2022.						
13	4	14 to 18	FACTORIZATION	.August-14	Independence day - Holiday			
				.August-15	UNIT 5 : 5.1 Factorization of type 1, type 2		29%	
				.August-16	5.1 Factorization Type 3, type4			
				.August-17	5.1 Factorization			
				.August-18	5.1 Factorization			
Week	# of Working days	From--T0	Chapter 5	Date	Topics	%	Review	
#		August - 2022.						
14	5	21 to 25	FACTORIZATION	.August-21	5.2 Remainder Theorem and Factor Theorem	32%		
				.August-22	5.2 Remainder Theorem and Factor Theorem			
				.August-23	5.3 Factorization of a Cubic Polynomial			
				.August-24	5.3 Factorization of a Cubic Polynomial			
				.August-25	5.3 Factorization of a Cubic Polynomial			
Week	# of Working days	From--T0	Chapter 6	Date	Topics	%	Review	
#		Aug/ Sep - 2022.						
15	5	28 to 1		.August-28	UNIT 6 ALGEBRAIC MANIPULATION			
				.August-29	6.1 Highest Common Factor and Least Common Multiple			

	Algebraic Manipulation	.August-30	6.1 Highest Common Factor and Least Common Multiple	35%	
		.August-31	6.1 Highest Common Factor and Least Common Multiple		
		.Sept:1	6.1 Highest Common Factor and Least Common Multiple		

Week	# of Working days	From--T0	Chapter 6	Date	Topics	%	Review
#		Sept: - 2022.					
16	5	4 to 8	Algebraic Manipulation	.Sept:-4	6.2 Basic Operations on Algebraic Fractions	40%	
		.Sept:-5		6.2 Basic Operations on Algebraic Fractions			
		.Sept:-6		6.3 Square Root of Algebraic			
		.Sept:-7		6.3 Square Root of Algebraic			
		.Sept:-8		6.3 Square Root of Algebraic			
Week	# of Working days	From--T0	Chapter 7	Date	Topics	%	Review
#		Sept: - 2022.					
17	5	11 to 15	LINEAR EQUATIONS	Sept:- 11	7.1 Linear Equations	42%	
		Sept:- 12		7.1 Equation involving Fractions			
		Sept:- 13		7.1.2 Equation involving Redicals.			
		Sept:- 14		7.2 Equation involving Absolute Value			
		Sept:- 15					
Week	# of Working days	From--T0	Chapter 7, 15	Date	Topics	%	Review
#		Sept: - 2022.					
18	5	18 to 22	LINEAR EQUATIONS	.Sept: 18	7.3 Linear Inequalities	48%	
		.Sept: 19		7.4 Solving Linear Inequalities			
		.Sept: 20		UNIT 15 15.1 PYTHAGORAS' THEOREM			
		.Sept: 21		15.2 Converse of Pythagoras' Theorem			
		.Sept: 22		PYTHAGORAS' THEOREM Exercise			

Week	# of Working days	From--T0	Chapter 8	Date	Topics	%	Review
#		Sept: - 2022.					
19	5	25 to 29	LINEAR GRAPHS	.Sept: 25	UNIT 8, 8.1 Cartesian Plane and Linear Graphs	52%	
		.Sept: 26		8.1 Linear equation and forms of equations			
		.Sept: 27		8.1 Linear equation and forms of equations			
		.Sept: 28		8.2 Conversion Graphs			
		.Sept: 29		8.2 Conversion Graphs			
Week	# of Working days	From--T0	Chapter 8, 9	Date	Topics	%	Review
#		October-2022.					
20	5	2 to 6	Application of Graphs	.Oct: - 2	8.3 Graphic Solution of Equations in two Variables	55%	
		.Oct: - 3		8.3 Graphic Solution of Equations in two Variables			
		.Oct: - 4		8.3 Graphic Solution of Equations in two Variables			
		.Oct: - 5		Unit 9: INTRODUCTION TO COORDINATE GEOMETRY			
		.Oct: - 6		9.1 Distance Formula			
Week	# of Working days	From--T0	Chapter 9	Date	Topics	%	Review
#		October-2022.					
21	5	9 to 13	Coordinate Geometry	.Oct: - 9	9.2 Collinear Points	60%	
		.Oct: - 10		9.2 Collinear Points			
		.Oct: - 11		9.3 Mid-point Formula			
		.Oct: - 12		9.3 Mid-point Formula			
		.Oct: - 13		9.3 Mid-point Formula			



Week	# of Working days	From--T0	Chapter 12	Date	Topics	%	Review
#		October-2022.					
22	5	16 to 20	LINE BISECTORS AND ANGLE BISECTORS	.Oct: - 16	<b>UNIT 12</b> LINE BISECTORS AND ANGLE BISECTORS, Theorem 12.1	65%	
		.Oct: - 17		Theorem 12.2 , Line Bisectors			
		.Oct: - 18		Ex 12.1, Angle Bisectors			
		.Oct: - 19		Theorem 12.3 , Line Bisectors			
		.Oct: - 20		Theorem 12.4			
Week	# of Working days	From--T0	Chapter 12	Date	Topics	%	Review
#		October-2022.					
23	5	23 to 27	Line and Angle Bisectors	.Oct: - 23	Theorem 12.5	70%	
		.Oct: - 24		Exercise 12.2			
		.Oct: - 25		Theorem 12.6			
		.Oct: - 26		Exercise 12.3			
		.Oct: - 27		Review 12			
Week	# of Working days	From--T0	Chapter 13	Date	Topics	%	Review
#		Oct/ Nov- 2022.					
24	5	30 to 3	Sides and angles of Triangle	.Oct:- 30	13.1 Sides of a triangle.	75%	
		.Oct:- 31		13.1 Sides of a triangle.			
		.Nov:- 1		13.1 Sides of a triangle.			
		.Nov:- 2		13.2 angle of triangle			
		.Nov:- 3		13.2 angle of triangle			

Week	# of Working days	From--T0	Chapter 13	Date	Topics	%	Review
#		Nov:- 2022.					
25	5	6 to 10	Sides and angles of Triangle	.Nov- 6	13.3 Sides of a triangle.	80%	
		.Nov- 7		13.3 Sides of a triangle.			
		.Nov- 8		13.3Sides of a triangle.			
		.Nov- 9		13.4 angle of triangle			
		.Nov- 10		13.4 angle of triangle			
Week	# of Working days	From--T0	Chapter 17	Date	Topics	%	Review
#		Nov:- 2022.					
26	5	13 to 17	Construction of Triangles	.Nov: -13	17.1Construction of Triangle	85%	
		.Nov: -14		17.1 Construction of Triangle			
		.Nov: -15		17.1 Construction of Triangle			
		.Nov: -16		17.1 Construction of Triangle			
		.Nov: -17		17.1 Construction of Triangle			
Week	# of Working days	From--T0	Revision	Date	Topics	%	Review
#		Nov:- 2022.					
27	5	20 to 24		.Nov:- 20	Revision		
		.Nov:- 21		Revision			
		.Nov:- 22		Revision			
		.Nov:- 23		Revision			
		.Nov:- 24		Revision			

Week	# of Working days	From--T0	Chapter	Date	Topics	%	Review
#		Nov / Dec:- 2022.					
28	Nil	27 to 1		.Nov:- 27	Oman National Day- Holidays		
				.Nov:- 28			
Sendup Examination - From November 29, 2022 to December 15, 2022							
Week	# of Working days	From--T0	Chapter 14	Date	Topics	%	Review
#		Dec: - 2022.					
29	5	18 to 22	RATIO AND PROPORTION	.Dec: -18	14.1 Ratio and Proportion	90%	
		.Dec: -19		14.2 Ratio and Proportion			
		.Dec: -20		14.3 Ratio and Proportion			
		.Dec: -21		14.4 Ratio and Proportion			
		.Dec: -22		Exercise Ratio and Proportion			
		Winter Vacation from December 22 to January 5, 2023					
Week	# of Working days	From--T0	Chapter 16	Date	Topics	%	Review
#		January- 2023.					
30	5	8 to 12	THEOREMS RELATED WITH AREA	.Jan:- 8	16.1 Theorems Related with Area	95%	
		.Jan:- 9		16.2 Theorems Related with Area			
		.Jan:- 10		16.3 Theorems Related with Area			
		.Jan:- 11		16.4 Theorems Related with Area			
		.Jan:- 12		Exercise 16 Theorems Related with Area			

Week	# of Working days	From--T0	Chapter 17	Date	Topics	%	Review
#		January- 2023.					
31	5	15 to 19	PRACTICAL GEOMETRY	.Jan:- 15	17.2Construction of Triangles angle bisectors	100%	
		.Jan:- 16		17.2Construction of Altitudes			
		.Jan:- 17		17.2Construction of Medians, perpendicular bisectors			
		.Jan:- 18		17.3 Construction of equal area figures			
		.Jan:- 19		17.4 Construction of equal Area figures			
Syllabus Completion till January 19, 2023							
Week	# of Working days	From--T0		Date	Topics	%	Review
#		January- 2023.					
32	5	15 to 19		.Jan:- 22	Revision		
		.Jan:- 23		Revision			
		.Jan:- 24		Revision			
		.Jan:- 25		Revision			
		.Jan:- 26		Revision			
Week	# of Working days	From--T0	Chapter 17	Date	Topics	%	Review
#		Jan/ Feb- 2023.					
33	5	29 to 02		.Jan:- 29	Revision		
		.Jan:- 30		Revision			
		.Jan:- 31		Revision			
		.Feb:- 1		Revision			
		.Feb:- 2		Revision			

Week	# of Working days	From--T0	Chapter	Date	Topics	%	Review
#		February-2023.					
34	5	5 to 9		.Feb:- 5	Revision / Test Series		
		.Feb:- 6		Revision / Test Series			
		.Feb:- 7		Revision / Test Series			
		.Feb:- 8		Revision / Test Series			
		.Feb:- 9		Revision / Test Series			
Week	# of Working days	From--T0	Chapter	Date	Topics	%	Review
#		February-2023.					
35	5	12 to 16		.Feb:- 12	Revision / Test Series		
		.Feb:- 13		Revision / Test Series			
		.Feb:- 14		Revision / Test Series			
		.Feb:- 15		Revision / Test Series			
		.Feb:- 16		Revision / Test Series			
Week	# of Working days	From--T0	Chapter	Date	Topics	%	Review
#		February-2023.					
36	3	19 to 23		.Feb:- 19	Revision / Test Series		
		.Feb:- 20		Revision / Test Series			
		.Feb:- 21		Revision / Test Series			
		.Feb:- 22		Revision / Test Series			
		.Feb:- 23		Revision / Test Series			

Week	# of Working days	From--T0	Chapter	Date	Topics	%	Review
#		Feb/ Mar: - 2023.					
37	5	26 to 2		.Feb:- 26	Revision / Test Series		
				.Feb:- 27	Revision / Test Series		
				.Feb:- 28	Revision / Test Series		
				.March:- 1	Revision / Test Series		
				.March:- 2	Revision / Test Series		

Week	# of Working days	From--T0	Chapter	Date	Topics	%	Review
#		March: - 2023.					
38	5	5 to 9		.March: - 5	Revision / Test Series		
				.March: - 6	Revision / Test Series		
				.March: - 7	Revision / Test Series		
				.March: - 8	Revision / Test Series		
				.March: - 9	Revision / Test Series		

Week	# of Working days	From--T0	Chapter	Date	Topics	%	Review
#		March: - 2023.					
39	5	12 to 16		.March: - 12	Revision / Test Series		
		.March: - 13		Revision / Test Series			
		.March: - 14		Revision / Test Series			
		.March: - 15		Revision / Test Series			
		.March: - 16		Revision / Test Series			

Week	# of Working days	From--T0	Chapter	Date	Topics	%	Review
#		March: - 2023.					
40	4	19 to 23		.March: - 19	Revision / Test Series		
				.March: - 20	Revision / Test Series		
				.March: - 21	Revision / Test Series		
				.March: - 22	Revision / Test Series		
				.March: - 23	Pakistan Day- Holiday		
Week	# of Working days	From--T0	Chapter	Date	Topics	%	Review
#		March: - 2023.					
41	5	26 to 30		.March: - 26	Revision		
				.March: - 27	Revision		
				.March: - 28	Revision		
				.March: - 29	Revision		
				.March: - 30	Revision		
Pre- Board- IX- X - April-2023							