

INDIAN SCHOOL MUSCAT SENIOR SECTION DEPARTMENT OF MATHEMATICS CLASS IX

REVISED YEAR PLAN (2020-2021)

Subject (Code: 041)

UNIT No.	Unit	Marks
1.	UNIT1: NUMBER SYSTEMS *NUMBER SYSTEMS	08
2.	UNIT2: ALGEBRA *POLYNOMIALS *LINEAR EQUATIONS IN TWO VARIABLES	17
3.	UNIT3: COORDINATE GEOMETRY *COORDINATE GEOMETRY	04
4.	UNIT4: GEOMETRY *LINES AND ANGLES *TRIANGLES *QUADRILATERALS *CIRCLES *CONSTRUCTIONS	28
5	UNIT5: MENSURATION *HERON'S FORMULA *SURFACE AREAS AND VOLUMES	13
6	UNIT6: STATISTICS & PROBABILITY *STATISTICS *PROBABILITY	10
	TOTAL	80

MONTH	UNIT	EXTRA TOPICS (Not to be Tested in Exams)
April 2020 Chapter -3	•Co-ORDINATE GEOMETRY •Cartesian System •Plotting a point in the plane if its Coordinates are given BRIDGE COURSE	Completed
Chapter -4	•Simple equations and rearranging LINEAR EQUATION IN 2 VARIABLES •Introduction • Solution of a Linear Equation	Completed
May 2020 Chapter -4	• Graph of a Linear Equation in Two Variables • Equations of Lines Parallel to x-axis and y-axis • BRIDGE COURSE • Algebraic expression • Factorization POLYNOMIALS • Polynomials in One Variable	*Examples, problems on Ratio and Proportion * Motivate and State the Remainder Theorem with examples. Statement and proof of the Factor Theorem.
Chapter -2	•Zeroes of a Polynomial • Factorization of Polynomials	*x³+y³+z³-3xyz Completed

June 2020	POLYNOMIALS (CONT)	Completed
Chapter -2	Algebraic Identities	
	BRIDGE COURSE	
	•Number system-Introduction - BODMAS rule	
	•HCF and LCM	
	•Rational numbers	Completed
Chapter -1	NUMBER SYSTEM	Completed
	•Irrational Numbers	*Representation of recurring
	• Real Numbers and their Decimal Expansions	decimals on the number line
	ACTIVITY	through successive magnification.
July 2020	NUMBER SYSTEM (Cont)	* Every point on the number
Chapter -1	Operations on Real Numbers	line represents a unique real
	Laws of Exponents for Real Numbers	number.
		* Definition of n th root of a
	LINES AND ANGLES	real number.
	Basic Terms and Definitions	
1 2020	PROJECT WORK	
August 2020	LINES AND ANGLES (Cont)	Chapter 5 – Introduction to Euclid's
Chantan	•Intersecting Lines and Non-intersecting Lines	Geometry
Chapter 6	• Pairs of Angles	
	•Parallel Lines and a Transversal	
	• Lines Parallel to the same Line	
	Angle Sum Property of a Triangle ACTIVITY	
	BRIDGE COURSE	
Chapter 7	•Congruence of triangles TRIANGLES	
Chapter 7	•Congruence of Triangles	
	Criteria for Congruence of Triangles	*Proof of the theorem - (ASA
	Some properties of a Triangle	Congruence).
Cantamban 2020	1 1	*
September 2020	TRIANGLES (Cont)	*Triangle inequalities and relation
Chapter 7	•Some more Criteria for Congruence of Triangles	between 'angle and facing side'
	REVISION & FIRST TERM EXAMINATION	inequalities in triangles
October 2020	OUADRILATERAL	The second second
October 2020	•Angle Sum Property of a Quadrilateral	Chapter 9 – Areas of
Chapter 8	Types of Quadrilaterals	
Chapter o	Properties of a Parallelogram	Parallelograms and Triangles
	Another Condition for a Quadrilateral	
	to be a Parallelogram	
	• The Mid-Point Theorem	
	ACTIVITY	
		* There is one and only one circle
Chapter 10	CIRCLES	passing through three given non-
	•Circles and its Related Terms : A Review	
	•Angle subtended by a chord at a point	collinear points.
	Perpendicular from the Centre to a Chord	
November 2020	CIRCLES (Cont)	*If a line segment joining two
	•Equal chords and their distances from the centre	points subtends equal angle at two
Chapter 10	• Angle subtended by an arc of a circle	other points lying on the same side
	Cyclic Quadrilateral	of the line containing the segment,
	A CONTRACTOR	the four points lie on a circle.
	ACTIVITY	the rout points he on a tilde.

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Chapter 11	•Basic Constructions • Some Constructions of Triangles BRIDGE COURSE	*Construction of a triangle of given perimeter and base angles
Chapter 12 Chapter 13	•Squares, square roots, Cubes and cube roots HERON'S FORMULA •Area of a Triangle – by Heron's Formula SURFACE AREA AND VOLUME •Surface Area and Volume of a Cuboid and a Cube	*Application of Heron's Formula in finding the area of a quadrilateral.
December 2020	WINTER VACATION	
January 2021 Chapter 13 Chapter 14	SURFACE AREA AND VOLUME (Cont) • Surface Area and Volume of a Right Circular Cylinder • Surface Area and Volume of a Right Circular Cone • Surface Area and Volume of a Sphere and Hemisphere STATISTICS • Collection of Data • Presentation of Data • Graphical Representation of Data ACTIVITY	*Histograms (with varying base lengths) * Frequency polygons. *Mean, median and mode of ungrouped data
Chapter 15 February 2021	PROBABILITY •Empirical Probability REVISION REVISION & ANNUAL EXAM 2020-21	
March 2021		
