ACADEMIC PLAN :2023-24
CARMEL CONVENT SR SEC SCHOOL ,RATANPUR,BHOPAL. STD: IX
SUBJECT: MATHEMATICS

Month / No of Working Days	Name of the Unit / Chapter/Topic	Learning Outcomes	Suggested Activities/ Projects under Internal Assessment/ PRACTICALS	Assignment	Assessment
APRIL	**Chap 2:** POLYNOMIALS	• **identifies/classifies** polynomials among algebraic expressions and factorises them by applying appropriate algebraic identities.	**1.** Verify identity $(a+b)^2 = a^2 + 2ab + b^2$ by paper cutting and pasting	Worksheet of chap **2**	On the basis of worksheet
JUNE	**Chap 1:**NUMBER SYSTEMS **Chap 3:** COORDINATE GEOMETRY	• **Applies** logical reasoning in classifying real numbers, proving their properties and using them in different situations • **develops** strategies to locate points in a Cartesian plane	**2.** Mirror image of given geometrical figure with respect to x-axis and y-axis	Questions from NCERT Exemplar	Oral questions will be asked
JULY	**Chap 3:** (contd) **Chap 4**: LINEAR EQUATIONS IN TWO VARIABLES	• relates the algebraic and graphical representations of a linear equation in one or two variables and applies the concept to daily life situations.	**3.**To obtain a linear equation and draw a graph which represents the linear equation.	Questions from other reference books	**P T -1 Chapter 2**

	Chap 5:INTRODUCTION TO EUCLID`S GEOMETRY	• **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.	**4.Art Integrated Activity:-** Statistical representation through histogram.		
AUGUST	**Chap 6:**LINES AND ANGLES **Chap 12:**HERON`S FORMULA	• **identifies** similarities and differences among different geometrical shapes • **finds**areas of all types of triangles by using appropriate formulae and apply them in real life situations.shapes.	**5.Art Integrated Project:** Golden Ratio in nature	Worksheet of chap **6 & 12.**	Peer Evaluation of Worksheet.
SEPTEMBER	REVISION + EXAM				**PT-2 (TERM 1)** **Chap 1 , 2 , 3, 4 , 5,6 &12**
OCTOBER	**Chap 7:**TRIANGLES **Chap 8:** QUADRILATERALS	• **derives** proofs of mathematical statements particularly related to geometrical concepts, like parallel lines,	**6.**Opposite angles of a cyclic quadrilateral are supplementa	Worksheet on chap **7 &8**	On the basis of worksheet

		triangles, quadrilaterals, circles, etc., by applying axiomatic approach and solves problems using them	ry by paper folding.		
NOVEM BER	**Chap10:**CIRCLES	• **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	**7.**Verify angle subtended by an arc at the centre is double the angle subtended at any point on the remaining part of circle.	Questions from other books	Oral questions will be asked
	Chap13:SURFACE AREAS AND VOLUMES	• **derives** formulae for surface areas and volumes of different solid objects likecones, spheres and hemispheres and applies them to objects found in the surroundings.			
DECEM BER	**Chap13:(contd)**				**PT-3 Chap 7 & 8**
JANUAR Y	**Chap14:**STATISTICS	• 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.			
FEBRUARY	REVISION + EXAM				**Chap 1,2,3 ,4 , 5, 6 , 7, 8 ,10 , 12 , 13 & 14**

NAME OF THE SUBJECT TEACHER:Mrs BINDHI, Mrs GINI ,Mrs PREETI & Mrs SHAILAJA

SIGNATURE OF THE SUBJECT COORDINATOR: