BISHOP SCOTT BOYS' SCHOOL

STUDENT CURRICULUM MANUAL

Subject : Mathematics **Class : 10** **Academic Plan : 2025 -26**

Month	Course Description	Learning Outcome	Activity	No. of Periods	Portion for PT & TERM Assessment
April	**LESSON 1 : Real Number**	• Fundamental Theorem of Arithmetic • Proofs of irrationality of √2, √3, √5 • Expressing rational number in p/q form • Terminating and non terminating decimal • Properties of numbers	Activity 1	8	
	LESSON 2 : POLYNOMIALS	• Zeros of polynomials • Relationship between zeros and coefficients of polynomial • Remainder theorem • Graphical meaning of zeros of polynomials	Activity 2	12	
May	**LESSON 3 :** **Pair of Linear Equations in Two Variables**	• Consistent and Inconsistent system of Linear Equations. • Graphical solution of system of liner equations in two variables	Activity 3	14	

Month	Course Description	Learning Outcome	Activity	No. of Periods	Portion for PT & TERM Assessment
June	**LESSON 3 :** **Pair of Linear Equations in Two Variables**	• Solving Linear Equations in two variable by Method of Substitution , Method of Elimination • Word Problems based on linear equations in two		13	
July	**LESSON 4: QUADRATIC EQUATIONS**.	• Standard form of a quadratic equation ax2 + bx + c = 0, (a ≠ 0) • Finding Roots of a Quadratic equation • Finding sum of the roots of quadratic equation • Finding product of roots of quadratic equation • Nature of Roots of quadratic equation	Activity 4	10	Portion for PT-01 Lesson -1 Lesson -2 Lesson -3 Lesson -4
July	**LESSON 5 : ARITHMETIC PROGRESSIONS**	• Finding nth term of Arithmetic Progression • Finding sum of first n terms of A.P • Finding Arithmetic mean • Common properties of Arithmetic series • Sum of first n natural numbers • Application in solving daily life problems.	Activity 5	8	

	LESSON 6 : TRIANGLES	• Similar Figures • Congruent Triangles • Similarity of Triangles • Criteria for Similarity of Triangles • Basic Proportionality Theorem • Converses of Thales' Theorem	Activity 6	10	
August	**LESSON 7: CO-ORDINATE GEOMETRY**	• Distance formula to find distance between any two points. • Criteria for three point to be collinear • Section formula • Mid point formula	Activity 7	10	
	LESSON 8 : INTRODUCTION TO TRIGONOMETRY	• Trigonometric ratios • Values of the Trigonometric Ratios of 0° , 30°, 45°,60°, 90° • Relations between the trigonometric ratios. • Trigonometric Identities		12	

Month	Course Description	Learning Outcome	Activity	No. of Periods	Portion for PT & TERM Assessment
September	REVISION	REVISION	Activity 8	10	Portion for TERM - 1 Lesson - 1 Lesson -2 Lesson -3 Lesson -4 Lesson -5 Lesson -6 Lesson -7 Lesson -8
October	**LESSON 9: SOME APPLICATIONS OF TRIGONOMETRY**	• Application of trigonometry in daily life (HEIGHTS AND DISTANCES) • Find out angle of elevation • Find out angle of depression	Activity 9	8	
	LESSON 10 : CIRCLES	• Tangent to the circle • The tangent at any point of a circle is perpendicular to the radius through the point of contact. • Difference between tangent and secant • Finding length of tangent using formula • Number of Tangents	Activity 9	7	

		from a point on a circle • The lengths of tangents drawn from an external point to a circle are equal.		6	

Month	Course Description	Learning Outcome	Activity	No. of Periods	Portion for PT & TERM Assessment
November	**LESSON 11 : AREA RELATED TO CIRCLES** Problems based on areas and perimeter / circumference of the above said plane figures.	• Finding length of minor/major arc of circle • Area of sectors and segments of a circle. • Finding area of major arc and minor arc of a circle	Activity 10	10	Portion for PT - 2 Lesson -8 Lesson -9 Lesson -10 Lesson -11
	LESSON 13 : SURFACE AREAS AND VOLUMES	• Surface areas of combinations of any two solids • volumes of combinations of any two solids		8	
December	**LESSON 13 : STATISTICS**	• Finding the mean of Group data • Mode of Group Data • Median of Group Data		6	Lesson - (01 to 14) **PREBOARD 01**
	LESSON 14 : PROBABILITY	• Classical definition of probability. • Simple problems on finding the probability of an event		6	

Month	Course Description	Learning Outcome	Activity	No. of Periods	Portion for PT & TERM Assessment
January + February	REVISION				**PREBOARD 2**