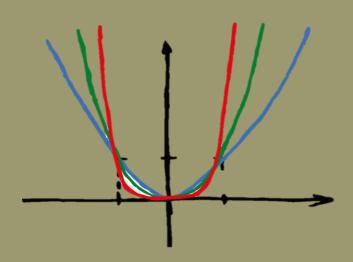
YEAR 2021-22

MATHEMATICS PROGRAM OF WORK







PROGRAM OF WORK FOR THE YEAR 2021-22 OTH STANDARD (E.M.)

DATE:20-06-2021

PREPARED BY:



T.SHIVAKUMAR MMDRS, HARAPANAHALLI TOWN VIJAYANAGARA DIST Mob.9916142961

PART-1

LESSON NO.	UNIT NAME	ALLOTED PERIODS
1	ARITHMETIC PROGRESSION	08
2	TRIANGLES	12
3	PAIR OF LINEAR EQUATIONS IN TWO VARIABLES	12
4	CIRCLES	05
5	AREAS RELATED TO CIRCLES	09
6	CONSTRUCTIONS	08
7	COORDINATE GEOMETRY	10
8	REAL NUMBERS	08
	CCE EVALUATION	04
	TOTAL	76

PART-2

LESSON NO.	UNIT NAME	ALLOTED
		PERIODS
9	POLYNOMIALS	08
10	QUADRATIC EQUATIONS	10
11	INTRODUCTION TO TRIGONOMETRY	10
12	SOME APPLICATIONS OF TRIGONOMETRY	10
13	STATISTICS	08
14	PROBABILITY	06
15	SURFACE AREAS AND VOLUMES	12
	CCE EVALUATION	06
	TOTAL	70

NO.OF PERIODS: 26

MONTH: JULY 2021

SL.NO	LESSON NAME	PERIODS	TEACHING ITEMS	PERIODS
	BRIDG			
	Evaluation	4	CCE EVALUATION	4

NO.OF PERIODS: 25

MONTH: August 2021

SL.NO	LESSON	PERIODS	TEACHING ITEMS	PERIODS
	NAME			
1	ARITHMETIC		1. Introduction	1
	PROGRESSION	10	2. Arithmetic	1
			progression	1
			3. nth term of an A.P	2 2
			4. Problems	2
			5. Sum of first n terms of	2
			an A.P	2
			6. Exercise problems	1
2	TDIANCIEC		7. Summary	1
2	TRIANGLES		1. Introduction	1
		11	2. Similar figures and similarity of triangles	1
			3. Problems	2
			4. Criteria of similarity of triangles	1
			5. Areas of similar triangles	1
			6. Problems	2
			7. Pythagoras theorem	1
			8. problems	1
			9. Summary	1
3	Evaluation	4	CCE EVALUATION	4

NO.OF PERIODS: 25

MONTH: September 2021

SL.NO	LESSON NAME	PERIODS	TEACHING ITEMS	PERIODS
1	PAIR OF LINEAR EQUATIONS IN	12	 Introduction Pair of linear equations in two variables 	1 1

CHITTI CREATIONS

VARIABLES 4. Algebraic methods of solving pair of linear equations in two variables a. Substitution method 2 b. Elimination method 2 c. Cross multiplication method 2 5. Equations reducible to a pair of linear equations in two variables 6. Problems 7. Summary 1 2 CIRCLES 4 1. Introduction and tangent to a circle 2. No.of tangents from a point on circle 3. problems 2 3 AREAS RELATED TO CIRCLES 1. Introduction, Perimeter, area of a circle 2. Areas of sector and segment of a circle 3. Areas of combinations of plane figure 4. Problems 6. Summary 1			1		
pair of linear equations in two variables a. Substitution method b. Elimination method c. Cross multiplication method 5. Equations reducible to a pair of linear equations in two variables 6. Problems 7. Summary 1 2 CIRCLES 4 1. Introduction and tangent to a circle 2. No.of tangents from a point on circle 3. problems 2 3 AREAS RELATED TO CIRCLES 2. Areas of sector and segment of a circle 3. Areas of combinations of plane figure 4. Problems 5. Summary 1		TWO			1
variables a. Substitution method b. Elimination method c. Cross multiplication method 5. Equations reducible to a pair of linear equations in two variables 6. Problems 7. Summary 1 2 CIRCLES 4 1. Introduction and tangent to a circle 2. No.of tangents from a point on circle 3. problems 7. Summary 2 3 AREAS RELATED TO CIRCLES 4 1. Introduction, Perimeter, area of a circle 2. Areas of sector and segment of a cirlce 3. Areas of combinations of plane figure 4. Problems 6 5. Summary 1		VARIABLES		4. Algebraic methods of solving	
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variables 6. Problems 7. Summary 2 CIRCLES 4 1. Introduction and tangent to a circle 2. No.of tangents from a point on circle 3. problems 2 3 AREAS 11 1. Introduction, Perimeter, area of a circle CIRCLES 2. Areas of sector and segment of a circle 3. Areas of combinations of plane figure 4. Problems 5. Summary 1				<u> </u>	
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2 CIRCLES 4 1. Introduction and tangent to a circle 2. No.of tangents from a point on circle 3. problems 2 3 AREAS 11 1. Introduction, Perimeter, area of a circle CIRCLES 2. Areas of sector and segment of a circle 3. Areas of combinations of plane figure 4. Problems 5. Summary 1					1
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3. Areas of combinations of plane figure 2 4. Problems 6 5. Summary 1		CIRCLES		_	1
figure 2 4. Problems 6 5. Summary 1					-
4. Problems 6 5. Summary 1				=	2
5. Summary 1					
					1
	4	Evaluation	1	CCE EVALUATION	1

NO.OF PERIODS: 16

MONTH: October 2021

SL.NO	LESSON NAME	PERIODS	TEACHING ITEMS	PERIODS
1	CONSTRUCTIONS	08	1. Introduction and	
			division of a line	4
			segment	
			2. Construction of	4
			tangents to a cirlce	
2	COORDINATE	05	1. Introduction	1
	GEOMETRY		2. Distance formula	2
			3. Section formula	2
3	Mid-term examination			
4	Evaluation	3	CCE EVALUATION	3

MONTH: OCTOBER

ANALYSIS OF FIRST TERM EXAM EVALUATION AND CHECKING THE HOLIDAY HOME WORK

NO.OF PERIODS: 22

MONTH: NOVEMBER 2021

SL.NO	LESSON NAME	PERIODS	TEACHING ITEMS	PERIODS
1	COORDINATE	08	4. Area of a triangle	4
	GEOMETRY		5. Problems	3
			6. Summary	1
2	REAL NUMBERS	10	1. Introduction	1
			2. Euclid's division lemma	1
			3. The fundamental theorem of	
			arithmetic	2
			4. Revisiting irrational numbers	2
			5. Revisiting irrational	
			numbers their decimal	2
			expansion	
			6. Problems	2
			7. Summary	1
3	Evaluation	4	CCE EVALUATION	4

NO.OF PERIODS: 27 MONTH: DECEMBER 2021

SL.NO	LESSON NAME	PERIODS	TEACHING ITEMS	PERIODS
1	POLYNOMIALS	7	1. Introduction	1
			2. Euclid's definition, axioms	2
			and postulates	
			3. Equivalent versions of	2
			Euclid's fifth postulate	
			4. Summary	1
2	QUADRATIC	12	1. Introduction and quadratic	1
	EQUATIONS		equation	
			2. Solution of a quadratic	3
			equation by factorization	
			method	3
			3. Solution of a quadratic	2
			equation by completing square method	2
			4. Nature of roots	1
			5. Problem solving	•
			6. Summary	
3	INTRODUCTION	03	1. Introduction and	
	то		trigonometric ratios	1
	TRIGONOMETRY		2. Trigonometric ratios of	
			some specific angles	2
4	Evaluation	4	CCE EVALUATION	4



NO.OF PERIODS: 25

MONTH: JANUARY 2022

SL.NO	LESSON NAME	PERIODS	TEACHING ITEMS	PERIODS
1	INTRODUCTION TO TRIGONOMETRY	07	3. Trigonometric ratios of complementary triangles4. Trigonometric identities5. problems6. Summary	3 2 2
2	SOME APPLICATIONS OF TRIGONOMETRY	10	 Introduction, height and distance Angle of elevation and angle of depression Applied problems 	1 2 7
3	STATISTICS	06	 Introduction Mean of grouped data Mode of grouped data 	1 2 3
4	Evaluation	2	CCE EVALUATION	2

NO.OF PERIODS: 23

MONTH: FEBRUARY 2022

SL.NO	LESSON NAME	PERIODS	TEACHING ITEMS	PERIODS
1	STATISTICS	06	(continued part)	
			4. Median of grouped data	3
			5. Graphical representation of	3
			cumulative frequency	
			distribution	
			6. Summary	1
				1
2	PROBABILITY	06	1. Introduction	1
			2. Probability – a theoretical	
			approach	2
			3. Complementary event	1
			4. Problems	2
			5. Summary	2
3	SURFACE AREAS	13	1. Introduction	1
	AND VOLUMES		2. Surface area of a combination	
			of solids	3
				3

3. Volume of a combinations of solids 3 4. Conversion of solid from one 3 shape to another 1 5. Frustum of a cone 6. Summary **CCE EVALUATION Evaluation** 4 4

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NO.OF PERIODS: 20 LESSON NAME

REVISION

SL.NO

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TEACHING ITEMS	PERIODS
OM	25

MONTH: March 2022

Series examinations

REVISION

Evaluation CCE EVALUATION 4

NO.OF PERIODS: 20

MONTH: April 2022

Preparatory and **ANNUAL EXAMINATION- APRIL**

PERIODS

25

Dear Sir/Madam: Actually we should finish the portion by December itself. Because in January, February and March there will be preparatory exam And PRACTICE PAPER so it is better to complete with in December. This Program of Work for department purpose. Any change u can make it.

THANK YOU

PROGRAM OF WORK 2021-22 **MATHEMATICS**