

9<sup>TH</sup> STANDARD ENGLISH MEDIUM

# POGRAM OF WORK FOR THE YEAR 2020-2

SUBJECT: MATHEMATICS

**PREPARED BY:** 

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#### PART-1

SL.NO	UNIT NAME	ALLOTED PERIODS
1	NUMBER SYSTEM	08+ 02
2	INTRODUCTION TO EUCLID'S GEOMETRY	04+02
3	LINES AND ANGLES	06+02
4	POLYNOMIALS	06+02
5	TRIANGLES	08+02
6	CONSTRUCTIONS	06+02
7	QUADRILATERALS	07+02
	CCE EVALUATION	07
	TOTAL	66

#### PART-2

SL.NO	UNIT NAME	ALLOTED PERIODS
1	HERON'S FORMULA	07+02
2	COORDINATE GEOMETRY	06+02
3	AREAS OF PARALLELOGRAMS & TRIANGLES	08+02
4	LINEAR EQUATIONS IN TWO VARIABLES	05+02
5	CIRCLES	06+02
6	SURFACE AREA & VOLUMES	10+02
7	STATISTICS	06+02
8	PROBABILITY	04+02
	CCE EVALUATION	
	TOTAL	70

(Note: Additional 02 periods required for notes checking and clarification of doubts)

MONTH: JUNE 2020

SL.NO	LESSON NAME	PERIODS	TEACHING ITEMS	PERIODS
1	NUMBER SYSTEM	6	1. Introduction 2. Irrational numbers 3. Problems	1 2 2
2	POLYNOMIALS	6	<ol> <li>Introduction</li> <li>Polynomials in one variables</li> <li>Zeroes of the polynomials</li> </ol>	1 2 2 2
3	INTRODUCTION TO EUCLID'S GEOMETRY	7	1. Introduction 2. Euclid's definition, axioms and postulates 3. Equivalent versions of Euclid's fifth postulate 4. Summary	1 2 2
4	Evaluation	4	CCE EVALUATION	4

**NO.OF PERIODS: 26** 

**MONTH: JULY 2020** 

SL.NO	LESSON NAME	PERIODS	TEACHING ITEMS	PERIODS
1	NUMBER	6	1. Representing real numbers	2
	SYSTEM		on the number line	
			2. Operation on real numbers	2
			3. Laws of exponents for real	
	A <sup>v</sup> \		numbers	2
			4. Summary	
2	POLYNOMIALS	6	1. Remainder theorem	2
			2. Factorization of polynomials	2
			3. Algebraic identities	2
4			4. Summary	
3	INTRODUCTION	7	5. Introduction	1
	TO EUCLID'S		6. Euclid's definition, axioms	2
	GEOMETRY		and postulates	
			7. Equivalent versions of	2
			Euclid's fifth postulate	
			8. Summary	1
5	Evaluation	4	CCE EVALUATION	4

NO.OF PERIODS: 23 MONTH:AUGUST 2020

SL.NO	LESSON NAME	PERIODS	TEACHING ITEMS	PERIODS
1	TRIANGLES	13	1. Introduction	1
			2. Congruence of triangles	2
			3. Criteria for congruence of	2
			triangles	2
			4. Some properties of a	3
			triangle	
			5. Some more criteria for	3
			congruence of triangles	A
			6. Inequalities in a triangle	
			7. Summary	
2	QUADRILATERALS	8	1. Introduction	1 2
			2. Angle sum property of a	2
			quadrilateral	
			3. Types of quadrilaterals	1
			4. Properties of a	2
			parallelogram	1
			5. Another condition for a	
			quadrilateral to be a	2
			parallelogram	
			6. The mid-point theorem	
			7. Summary	
3	Constructions	6	5. Introductions	2
			6. Basic constructions	2
			7. Some constructions of	2
		A	triangles	
			8. summary	2
4	<b>Evaluation</b>	4	CCE EVALUATION	4

# **MONTH: September 2020**

SL.NO	LESSON NAME	PERIODS	TEACHING ITEMS	PERIODS
1.	LINES AND	10	1. Introduction	1
	ANGLES	*	2. Basic terms and definitions	2
A	V/V		3. Intersecting lines and non- intersecting lines	1
			4. Pair of angles	2
			5. Parallel lines and transversal	2
			lines	2
			6. Lines parallel to the same line	2
			7. Angle sum property of a angle	
			8. Summary	
2.	First s	emestei	examination	

**MONTH: OCTOBER** 

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

#### NO.OF PERIODS:23 MONTH: NOVEMBER 2020

SL.NO	LESSON NAME	PERIODS	TEACHING ITEMS	PERIODS
1	HERON'S	6	1. Introduction	1
	FORMULA		2. Area of a triangle- by Heron's	2
			formula	
			3. Application of Heron's formula	2
			in finding areas of	
			Quadrilaterals	1
			4. Summary	
2	STATISTICS	6	1. Introduction	
			2. Collection of data	
			3. Presentation of data	
3	Evaluation	4	CCE EVALUATION	4

#### NO.OF PERIODS: 24

#### **MONTH: DECEMBER 2020**

SL.NO	LESSON NAME	PERIODS	TEACHING ITEMS	PERIODS
1	SURFACE AREA	20	1. Introduction	1
	AND VOLUMES	P	2. Surface area of a Cuboid and a Cube	3
			3. Surface area of a right circular cylinder	3
			4. Surface area of a right circular cone	3
			5. Surface area of a sphere	3
			6. Volume of a Cuboid	2
			7. Volume of a Cylinder	2
			8. Volume of a right circular cone	2
			9. Volume of a sphere	2
			10. Summary	
2	Evaluation	4	CCE EVALUATION	4



### **MONTH: JANUARY 2021**

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SL.NO	LESSON NAME	PERIODS		TEACHING ITEMS	PERIODS
1	AREAS OF	9	1.	Introduction	1
	PARALLELOGRAMS		2.	Figures on the same base	2
	AND TRIANGLES			and between the same	
				parallels	3
			3.	Parallelograms on the same	
				base and between the same	3
				parallels	_
			4	Triangles on the same base	
			Ä	and between the same	
				parallels	
				Summary	
2	COORDINATE	3 🔿		Introduction	1
2	GEOMETRY	3	VIII.	Cartesian system	1
	GEOMETKI			Problems	1
					1
			4.	Plotting a point in the plane	2
			_	if its coordinates are given	
-	CAD CA DC		5.	Summary	1
3	CIRCLES	4		Introduction	1
			2.	Circles and its related terms:	1
	1 8 1			A review	
			3.	Angle subtended by a chord	2
				at a point	
				(continued in the next	
				month)	
4	V		4.		

T.SHIVAKUMAR 9916142961 Page 7

#### **MONTH: FEBRUARY 2021**

SL.NO	LESSON NAME	PERIODS	TEACHING ITEMS	PERIODS
1	CIRCLES	10	(from previous month)	
			1. Perpendicular from the centre to a chord	2
			2. Circle through three points	2
			3. Equal chords and their distances	2
			from the centre	
			4. Angle subtended by an arc of a	2
			circle	
			5. Cyclic quadrilaterals	2
			6. Summary	
2	PROBABILITY	5	1. Introduction	1
			2. Probability - an experimental approach	4
			3. Summary	

#### **NO.OF PERIODS: 15**

**MONTH: MARCH 2021** 

1	REVISION	15	REVISION	15
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# **EXAMINATION OF SA2**

Dear Sir/Madam:

This Program of Work for department purpose. Any change u can make it.

# **THANK YOU**