

GOOD WORD PUBLIC SCHOOL

REDHILLS, CHENNAI

ANNUAL CURRICULUM 2020-2021

GRADE:X

SUBJECT: MATHS

S.NO	MONTH & CHAPTER NAME	LEARNING OBJECTIVES	ACTIVITY	LEARNING OUTCOME	ASSESSMENT
1	Real Numbers Aug – 23 Days	The students will be able to: - division lemma(understanding) - The fundamental theorem of Arithmetic (understanding) - Revisiting irrational numbers(understanding, application) - Revisiting rational numbers and their decimal expansion(understanding)	Students playing folk puzzle game in the Euclid's division lemma	Students understood: - division lemma(understanding) - The fundamental theorem of Arithmetic (understanding) - Revisiting irrational numbers(understanding, application) - Revisiting rational numbers and their decimal expansion(understanding)	Worksheet, Quiz, Asking Question
2	Polynomials Aug – 23 Days	The students will be able to: - Geometrical meaning of the zeros of a polynomial(knowledge) - Relationship between zeros and coefficients of a polynomial(understanding) - Division Algorithm for polynomials(understanding)	Students playing factorisation game	Students understood: - Geometrical meaning of the zeros of a polynomial(knowledge) - Relationship between zeros and coefficients of a polynomial(understanding) - Division Algorithm for polynomials(understanding)	Test conducted , Quiz, Project

3	Pair of Linear equations in Two Variables Sep – 24 Days	The students knowing about: - Pair of linear equations in Two Variables(application) - Graphical method of solution of a pair of linear equations(understanding) - Algebraic method of solving a pair of linear equation → Substitution method(skill) → Elimination method(skill) → Cross multiplication method(understanding) -Equations reducible to a pair of linear equations in Two Variables.(understanding and Application)		Students understood: - Pair of linear equations in Two Variables(application) - Graphical method of solution of a pair of linear equations(understanding) - Algebraic method of solving a pair of linear equation → Substitution method(skill) → Elimination method(skill) → Cross multiplication method(understanding) -Equations reducible to a pair of linear equations in Two Variables.(understanding and Application)	
4	Quadratic Equations Sep – 24 Days	The students understanding about: -Quadratic equations(understanding) -Solution of a quadratic equation by factorization (Application) - Solution of a quadratic equation by completing the square (Understanding) -Nature of Roots (Understanding)	Students solving the quadratic equation by completing square method with use of various division of square	Students understood: -Quadratic equations(understanding) -Solution of a quadratic equation by factorization (Application) - Solution of a quadratic equation by completing the square (Understanding) -Nature of Roots (Understanding)	Video, Quiz, Test conducted, Asking question
5	Arithmetic Progression Oct – 21 Days	The Students will be able to: -Arithmetic Progression(skill) -nth Term of an AP(understanding) -Sum of the first n Terms of an AP(understanding)	Students identify the formula to find out the nth Term and (n+1)th Term in AP x GP	Students understood: -Arithmetic Progression(skill) -nth Term of an AP(understanding) -Sum of the first n Terms of an AP(understanding)	Identity, Worksheet

6	Triangles Nov – 24 Days	The Students knowing about: -Similar figures(understanding) -Similarity of Triangles(Application) -Criteria for Similarity of Triangle(understanding) - Area of similar Triangle(understanding) -Pythagoras theorem(skill)	Students making the Triangle with use of one permanent point and to moving point. PROJECT: Students doing the projects for Pythagoras theorem.	Students understood: -Similar figures(understanding) -Similarity of Triangles(Application) -Criteria for Similarity of Triangle(understanding) - Area of similar Triangle(understanding) -Pythagoras theorem(skill)	Project, Quiz, Test conducted
7	Coordinate Geometry Nov – 24 Days	The Students will be able to: -Distance formula(Application) -Section formula(understanding) -Area of a Triangle(Application)	Students doing the project to find out the area of a triangle	Students understood: -Distance formula(Application) -Section formula(understanding) -Area of a Triangle(Application)	Worksheet, Test conducted
8	Introduction of Trigonometry Jun – 24 Days	The Students understanding about: -Trigonometric Ratios(skill) -Trigonometric Ratios of some specific angles(understanding) -Trigonometric Ratios of complementary angles(knowledge) -Trigonometric identities(understanding, Application)	Students playing the game to identify the trigonometric identities and its angle.	Students understood: -Trigonometric Ratios(skill) -Trigonometric Ratios of some specific angles(understanding) -Trigonometric Ratios of complementary angles(knowledge) -Trigonometric identities(understanding, Application)	Quiz, Asking Question, Assignment
9	Some Applications of Trigonometry Jun – 24 Days	The Students will be able to: -Heights and Distance(understanding)	Students making many project for height and distance	Students understood: -Heights and Distance(understanding)	Quiz, Asking Question

10	Circles Dec – 24 Days	The Students understanding about: -Tangent to a circle(understanding, skill) -Number of Tangent from a point on a circle(Applications)	Students doing the project for Tangent to a circle	Students understood: -Tangent to a circle(understanding, skill) -Number of Tangent from a point on a circle(Applications)	Assignment, Test conducted
11	Constructions Dec – 24 Days	The Students knowing about: -Division of a line segment(understanding) -Construction of a Tangents to a circle(Application)	Students construct the tangent to a circle from a point outside it.	Students understood: -Division of a line segment(understanding) -Construction of a Tangents to a circle(Application)	Identity, Worksheet, Project
12	Areas related to circles Jan – 19 Days	The Students perception about: -Perimeter and area of a circle – A Review(understanding) -Areas of a sector and segment of a circle(skill) -Areas of combinations of plane figures(knowledge)	Students doing the project for finding the area of a circle	Students understood: -Perimeter and area of a circle – A Review(understanding) -Areas of a sector and segment of a circle(skill) -Areas of combinations of plane figures(knowledge)	Project, Assignment Quiz
13	Surface areas and volumes Feb – 24 Days	The Students will be able to: -Surface area of a combination of solids(skill) -Volume of a combination of solids(understanding) -Conversion of solid from one shape to another (skill) -Frustum of a cone(knowledge)	Students doing the project for surface area of a combination of solids.	Students understood: -Surface area of a combination of solids(skill) -Volume of a combination of solids(understanding) -Conversion of solid from one shape to another (skill) -Frustum of a cone(knowledge)	Quiz, Test conducted

14	Statistics Jul – 24 Days	The Students understanding about: -Mean of grouped data(skill) -Mode of grouped data(skill) -Median of grouped data(skill) -Graphical representation of cumulative frequency distribution(understanding)	Collect the daily max temperature recorded for a period of 30days in your city. Present this data as a grouped frequency table.	Students understood: -Mean of grouped data(skill) -Mode of grouped data(skill) -Median of grouped data(skill) -Graphical representation of cumulative frequency distribution(understanding)	Asking question, Assignment, project
15	Probability Jul – 24 Days	The Students understanding about: -Probability-A Theoretical approach (understanding & Application)	Students doing several activity with use of cards, dice, coin, colour balls etc.,	Students understood: -Probability-A Theoretical approach (understanding & Application)	Project, Quiz