DAYAWATI MODI PUBLIC SCHOOL, CHANDIL

Syllabus

Session:-2021-2022

Class:- X Subject : Mathematics Subject Teacher:Laxman kumar

Name of Book:- Secondary school mathematics

Rs Aggarwal

Month	Working Days	Lesson	Art Integrated Project
April	23	Number system . Unit. 1 Chapter 1. Real numbers .Euclids division lemma, fundamental theorem of arithmetic statement, terminating and non terminating recurring decimals Chapter 2.Unit 2. Polynomials. Zeroes of the polynomials, Relationship between zeroes and coefficients of a polynomials quadratic polynomials forms	
May	24/9	Chapter 2. Pair of Linear equations in two variables Solutions of linear equations in two variables, solving the method substitution and elimination and cross multiplication, Unit 3. Geometry Chapter 1. Triangles definition, examples of similar triangles proving of Thales theorem and its convers theorems prove of the ratio of the areas of two similar triangles is equal to the ratios of the squares on the others sides State and prove Pythagoras theorem and its Converse theorem and all deduction theorems related on triangles.	
June	24/16	Unit 4. Trigonometry Trigonometric ratios of an acute angle of a right angled triangles 0 degree to 90 degree relationship between the ratios Chapter 2.Trigonometry identities Proof and applications of the identity and complementary angles.	
July	25	Unit 5. Statistics and probability Chapter 1. Statistics Mean median and mode of the grouped data cumulative frequency graph Quadratic equations Standard form of a quadratic equation find the roots by factorisation and complete the square and by using quadratic formula and relationship between discriminate and nature of the	

		roots chapter 4.Arithmetic Progress derivation of standard results of Finding the nth term and sum of first n terms.	
August	23	Unit 3. Geometry Chapter 2.circles Tangents to a circle motivated chords drawn from points coming closer and closer to the point 3.Thelengths of tangents drawn from an external point to circle are equal Chapter 3. Constructions 1.division of a line segment in a given ratio 2.tangent to a circle from a point outside it 3.construction of a triangles similar to a given triangle	
September October November December January February	17 17 20 20 23 20	Unit 5. Trigonometry Chapter 3.Height and distances ideas of angle of elevation and depression should be only 0 degree to 90 degree Unit 5. Chapter 2.definition of probability, events out comes random experiment and related formula Unit 6.Coordinate geometry Distance betweent two points and section formula area of the triangle Unit 7.Mensuration. Area of a circle area of sector and segments of a circle problem based on areas and perimeter of circles central angle60 degree to 90 degree Volume surface area of a cube cuboid cylinder cone sphere hemisphere right circular cylinder, cone first-run of a cone volume surface area and solids Area of circles, sector and segment Revision of all chapters	