

WEEK WISE DISTRIBUTION OF 10TH CLASS
MATHS SYLLABUS FOR 2009-2010

Week / Dates	No. of working days	Chapter/ Topic	Details
April 1 st Week 1-4	3	Chapter-1 Real Number	Euclid's division lemma-finding HCF & LCM of numbers Ex-1.1 Fundamental Theorem of Arithmetic Ex1.2,
April 2 nd Week 6-11	3	Chapter-1 Real Number	, Theorem 1.3 and proofs of results - irrationality of $\sqrt{2}$, $\sqrt{3}$, $\sqrt{5}$ – Ex 1.3 Decimal expansion of rational number in terms of terminating / non-terminating recurring decimal – Ex.1.4
April 3 rd week 13-18	6	Chapter 2 Polynomials Chapter-3 Pair of Linear equations in two variables	Zeroes of a Polynomial & Geometrical meaning of the Zeroes of a polynomial Ex-2.1 Relationship between zeroes and co-efficient of a polynomial with real coefficient of a polynomial, Division algorithm with real coefficient. Ex. 2.2 Pair of Linear equations in two variables – Ex3.1. Geometric representation of different possibilities of solution / inconsistency
April 4 th Week 20-25	6	Chapter-3 Pair of Linear equations in Two variables.	Graphical Method of solution of a pair of linear equations- Ex. 3.2 Algebraic Method of solving of linear equations – substitution method – Ex3.3, Elimination method – Ex3.4 Cross Multiplication Method- Ex 3.5

SUMMER VACATIONS FROM 1ST May 2007 to 30th June 2007

April 27-30	3	Chapter 3 Pair of Linear equations in two variables	Practice on the questions for finding value of a variable so that the pair of linear equations have no solution, many solution or unique solutions Ex3.5 simple situational problems on equation reducible to linear equations – Ex 3.6
July 1 st Week 1-4	4	Chapter 4- Quadratic Equation	Standard form of quadratic equation – Ex4.1 Solution of a quadratic equation by factorization method- Ex 4.2
July 2 nd Week 6-11	5	Chapter-4 Quadratic Equation	Solution of a quadratic equation by completing the square i.e. by using quadratic formula Ex4.3 Relationship between discriminate & nature of roots – Ex 4.4 Problems related to day to day activities (extra problems to be covered)
July 3rd Week 13-18	6	Chapter-5 Arithmetic progression	Introduction to A.P. nth term of an A.P. Ex 5.1, Ex5.2.
July 4 th Week 20-25	6	Chapter -5 Arithmetic Progression Chapter-6 Triangles	Continue Ex.5.2 .Sum of first in terms – Ex5.3 Introduction, Examples of similar triangle, Basic Proportionality theorem (with proof) Ex 6.1,

July 5 th Week 27-30, 1 st August	5	Chapter-6 Triangles	<p>Ex6.2 (Motivate) If in two triangles the corresponding angles are equal their corresponding sides are proportional and the triangles are similar.</p> <p>(Motivate) If in two triangles sides of one triangle are proportional to the sides of the other triangle then their corresponding sides are equal and hence the two triangles are similar.</p> <p>(Motivate) If one angle of a triangle is equal to one angle of the other triangle and the sides including these angles are proportional then the two triangles are similar.</p> <p>(With Proof) The ratio of the areas of two similar triangles is equal to the square of the ratio of their corresponding sides- Ex6.3, E x 6.4</p>
August 1st Week 3-8	5	Chapter-6 Triangles	<p>Motivate) If a perpendicular is drawn from the vertex of the right angle of a right triangle to the hypotenuse then triangles on both sides of the perpendicular are similar to the whole triangle and to each other- Ex 6.5</p> <p>(With Proof) In a right triangle the square of the hypotenuse is equal to the sum of the squares of the other two sides.</p> <p>(With Proof) In a triangle, if square of one side is equal to the sum of the squares of the other two sides, then the angle opposite the first side is a right angle.</p>
August 2nd week 10-15	4	Chapter-15 Probability	Introduction, Simple problems on single event – Ex 15.1
August 3rd Week	6	Chapter-11 Constructions	Division of a line- segment in a given ratio (Internally), Tangent to a circle from a point outside it. Construction of a

17-22			triangle similar to a given triangle Ex 11.1, Ex 11.2
August 4th [†] Week 24-29	6	Chapter-14 Statistics	Ex14.1, Ex14.2
September 1 st Week 1-5	5	Chapter-14 Statistics	Ex14.3, Ex14.4 1 st C.C.E.P Exam
4th September '09 1st C.C.E.P			
September 2 nd Week 7-9	3		Revision
10-18 First Term Examination			
19-28 Autumn Break			
29 September, October 1 st Week 1-3	3	Chapter-7 Co-ordinate Geometry	Introduction, Distance formula, Section formula,– Ex7.1, Ex7.2,
October 2nd Week 5-10	5	Chapter-7 Co-ordinate Geometry Chapter 8 Introduction to Trigonometry	Area of triangle Ex 7.3 Trigonometric ratios of an acute angle of a right angled triangle Ex8.1 Trigonometric Ratios of same specific angles, value (with proof) of the trigonometric ratios of 30° , 45° and 60° - Ex 8.2
October' 07	5	Chapter 8 Introduction to	Trigonometric ratios of complementary angles – Ex 8.3 Trigonometric Identities, Proof and application of the identity

3rd Week 12-17		Trigonometry	$\sin^2 A + \cos^2 A = 1$, Ex8.4
October 3 rd Week 19-24	6	Chapter 9 Height and Distances	Introduction Simple problems on height and distance, angle of elevation./ depression should be only 30° , 45° and 60° – Ex9.1
October 4th Week 26-31	5	Chapter 10 Circles	Introduction, Tangents to a circle (With proof) The tangent at any point of a circle is perpendicular to the radius through the point of contact. (With Proof) The length of tangents drawn from an external point to a circle are equal – Ex 10.1, Ex 10.2
November 1st Week 2-7	5	Chapter 12- Area related to circle	Perimeter and area of the circle – Ex 12.1 Area of sector and segment of a circle ,Ex 12.2
November 2nd Week 9-14	5	Chapter 12 – Area related to circle Chapter 13- Surface areas and Volumes	Area of combinations of plane figures – Ex 12.3 Introduction
November 3rd Week 16-21	6	Chapter 13- Surface areas and Volumes	Surface area of combinations of solids, volume of the combination of solids and conversion of solids from one shape to another- Ex 13.1, Ex 13.2
November 4th Week 23-30	6	Chapter 13- Surface areas and Volumes	, Ex 13.3 Frustum of a cone – Ex13.4

December 1 st Week 1-5	5	Revision	
December 2nd Week 7-14	5	Revision	
11 Dec 09 II C.C.E.P			
Dec3rd Week 15-22 Half Yearly Exam			
December 23-24	1		Correction and Recapitulation
25-31 Winter Break			
Jan , 2010 1-9	7		Revision
Jan 11-14	4		Revision
Jan 15-25 Pre Board Examination			
Jan			Revision

27-30			
February 1 st Week 1-6			Revision
February 2 nd Week 8-13			Revision
February 3 rd Week 15-20			Revision

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