

MONTHLY SYLLABUS
SESSION-2016-17
CLASS-X
SUBJECT : MATHEMATICS

MONTH	CONTENT
April 2016	<ul style="list-style-type: none"> • CHAPTER 1- REAL NUMBERS Ex. 1.1 Euclid's Division Lemma Ex. 1.2 Fundamental Theorem of Arithmetic Ex. 1.3 Irrationality of $\sqrt{2}$, $\sqrt{3}$, $\sqrt{5}$ etc. Ex. 1.4 Decimal expansions of rational numbers MENTAL MATHS: Chapter-1 Value Based Questions Maths Activity • CHAPTER 2- POLYNOMIALS Ex. 2.1 Zeroes of polynomials Ex. 2.2 Relationship between Zeroes and coefficients of a polynomial Ex. 2.3 Division algorithm Value Based Questions MENTAL MATHS : Chapter-2 • CHAPTER 3-PAIR OF LINEAR EQUATIONS IN TWO VARIABLES Ex. 3.1 Introduction Ex. 3.2 Graphical method of solution of pair of linear equations Ex. 3.3 Substitution method

<p>May 2016</p>	<p>CHAPTER 3- PAIR OF LINEAR EQUATIONS IN TWO VARIABLES</p> <p>Ex. 3.4 Elimination method</p> <p>Ex. 3.5 Cross multiplication method</p> <p>Ex. 3.6 Equations reducible to a pair of linear equations in two variables</p> <p>MENTAL MATHS: Chapter-3</p> <p>Value Based Questions</p> <p>Maths Activity</p>
<p>11.5.2016 to 30.06.2016</p>	<p style="text-align: center;">SUMMER VACATION</p>
<p>July 2016</p>	<ul style="list-style-type: none"> • CHAPTER 6- TRIANGLES Ex. 6.1 Introduction Ex. 6.2 Basic proportionality theorem Ex. 6.3 Criteria for similarity of triangles Ex. 6.4 Area of similar triangles-theorem and related questions Ex. 6.5 Pythagoras theorem and converse MENTAL MATHS AND VALUE BASED QUESTIONS Maths Activity • CHAPTER 14- STATISTICS Ex. 14.1 Introduction, Mean of grouped data Ex. 14.2 Mode of grouped data
<p>August 2016</p>	<ul style="list-style-type: none"> • CHAPTER 14- STATISTICS EX. 14.3 Median of grouped data Ex. 14.4 Graphical representation of cumulative

	<p>frequency distribution</p> <p>MENTAL MATHS AND VALUE BASED QUESTIONS</p> <p>Maths Activity</p> <ul style="list-style-type: none"> • CHAPTER 8 : INTRODUCTION TO TRIGONOMETRY <p>Ex. 8.1 Introduction to trigonometric ratios</p> <p>Ex. 8.2 Trigonometric ratios of specific angles and geometrical representation of 30°, 45°, 60°</p> <p>Ex. 8.3 Trigonometric ratios of complementary angles</p>
September 2016	<ul style="list-style-type: none"> • CHAPTER 8-INTRODUCTION TO TRIGONOMETRY <p>Ex. 8.4 Trigonometric identities</p> <p>MENTAL MATHS</p> <p>Value Based Questions</p> <p>Maths Activity</p> <p>REVISION OF CHAPTERS 1,2,3,6,8 and 14</p> <p>Summative Assessment -1</p>
	<p>First Summative Examination (SA-1)</p> <p>Discussion of Question Paper of SA-I</p>
	<p>AUTUMN BREAK</p>
October 2016	<ul style="list-style-type: none"> • CHAPTER 4 : QUADRATIC EQUATIONS <p>Ex. 4.1 Introduction</p> <p>Ex. 4.2 Solution of a quadratic equation by factorization</p> <p>Ex. 4.3 Solution of a quadratic equation by the method of completing the square and using quadratic formula</p> <p>Ex. 4.4 Nature of roots</p>

	<p>MENTAL MATHS AND VALUE BASED QUESTIONS</p> <p>Maths Activity</p> <ul style="list-style-type: none"> • CHAPTER 7- CO-ORDINATE GEOMETRY <p>Ex. 7.1 Distance formula</p> <p>Ex. 7.2 Section formula</p> <p>Ex. 7.3 Area of a triangle</p> <p>MENTAL MATHS AND VALUE BASED QUESTIONS</p> <p>Maths Activity</p>
November 2016	<ul style="list-style-type: none"> • CHAPTER 5- ARITHMETIC PROGRESSION <p>Ex. 5.1 Introduction</p> <p>Ex. 5.2 n^{th} term of an A.P</p> <p>Ex. 5.3 Sum of first n terms of an A.P</p> <p>MENTAL MATHS AND VALUE BASED QUESTIONS</p> <p>Maths Activity</p> <ul style="list-style-type: none"> • CHAPTER 10- CIRCLES <p>Ex. 10.1 Tangent to a circle</p> <p>Ex. 10.2 Lengths of tangents drawn from an external point, theorem and related questions</p> <p>Value Based Questions</p> <p>Maths Activity</p> <ul style="list-style-type: none"> • CHAPTER 12- AREAS RELATED TO CIRCLES <p>Ex. 12.1 Perimeter and area of a circle</p> <p>Ex. 12.2 Area of Sector and Segment of a circle</p> <p>Ex. 12.3 Areas of combinations of Plane Figures</p> <p>MENTAL MATHS AND VALUE BASED QUESTIONS</p>

	<p>Maths Activity</p> <ul style="list-style-type: none"> • CHAPTER 15- PROBABILITY <p>Ex. 15.1 Introduction of basic concept of probability and related questions</p> <p>MENTAL MATHS AND VALUE BASED QUESTIONS</p> <p>Maths Activity</p>
December 2016	<ul style="list-style-type: none"> • CHAPTER 13- SURFACE AREAS AND VOLUMES <p>Ex. 13.1 Surface area of a combination of solids</p> <p>Ex. 13.2 Volume of a combination of solids</p> <p>Ex. 13.3 Conversion of solid from one shape to another</p> <p>Ex. 13.4 Frustum of a cone</p> <p>MENTAL MATHS AND VALUE BASED QUESTIONS</p> <p>Maths Activity</p> <ul style="list-style-type: none"> • CHAPTER 11- CONSTRUCTIONS <p>Ex. 11.1 Division of a line segment</p> <p>Ex. 11.2 Construction of tangents to a circle</p> <p>Maths Activity</p> <ul style="list-style-type: none"> • CHAPTER 9-SOME APPLICATIONS OF TRIGONOMETRY <p>Ex. 9.1 Heights and distances</p> <p>MENTAL MATHS AND VALUE BASED QUESTIONS</p> <p>Maths Activity</p>
	WINTER BREAK

January 2017	REVISION of CHAPTERS -4,5,7,9,10,11
February 2017	REVISION of CHAPTERS-12,13,15
March 2017	SA-II Examination